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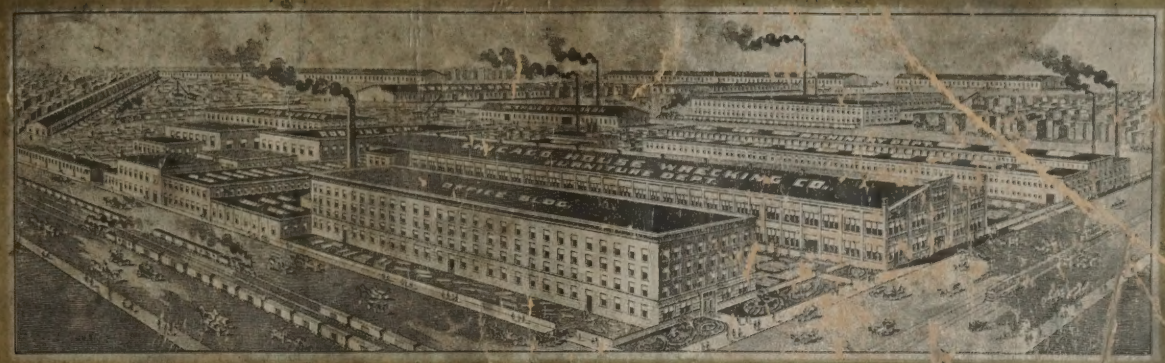

LUMBER

MILL WORK

MACHINERY

WIRE & FENCING

PIPE & FITTINGS

HIGHEST GRADE PRODUCTS USUALLY AT LESS THAN COST OF MANUFACTURE

CAPITAL STOCK & SURPLUS
$1,000,000.00

GENERAL MERCHANDISE FROM SHERIFFS RECEIVERS AND MANUFACTURERS SALES

FURNITURE & RUGS

ROOFING

PLUMBING

HARDWARE

STRUCTURAL IRON

CHICAGO HOUSE WRECKING CO.

CHICAGO U.S.A.

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OUR BINDING GUARANTEE

We guarantee absolute and complete satisfaction. There is no half way about this guarantee. Every purchase you make from us will be exactly as represented and you will be satisfied in every way, or we will make such just amends as are within our power.

Our descriptions represent straight, honest facts. There is nothing colored about them. We are not regularly in any one line of merchandise. Our business is of a varied character. It is necessary for us to give you descriptions in the coldest manner possible. We have no intention of overdrawing facts or playing upon your imagination.

If you buy any goods from us and they are not satisfactory to you in every way and manner, we will either take back such merchandise and refund the full purchase price, or we will make satisfactory adjustment to you. We have faith in the honesty and integrity of our patrons and we will demonstrate it to your entire satisfaction.

We want at all times to enjoy your fullest confidence and we will gain it by giving you an honest, square deal. Bear that in mind always and we are sure we will get to know one another much better.

While this business is owned by a large corporation, its individual officers and officials take a deep and active interest in each and every customer. We treat every man as though he was the only one we do business with. That is the relationship we are anxious to maintain at all times with you.

So you can purchase with absolute confidence and without hesitation or fear, knowing full well that every dollar's worth of goods shipped you is covered by a guarantee so binding that no possibility of evasion exists for us. If the goods are not satisfactory we will take them back. Nothing can be fairer and we mean every word we have said.

If upon receipt of your goods you find anything contrary to our representations or not satisfactory, write us the facts in the case. If you positively cannot use the merchandise in question, ask for instructions for its return and we will furnish you with such necessary shipping instructions. Immediately upon receipt of the goods in question your money will be refunded in full, or the articles will be exchanged for you subject to your pleasure in the matter.

INDEX TO DEPARTMENTS

As a means of ready reference the following index will quickly direct you to the various departments represented in this catalog. A complete index will be found in the middle of this book. Note the colored pages. If you are looking for some manufactured article not found in this catalog, write us. The chances are we have it in stock.

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OUR REFERENCES

The Chicago House Wrecking Co. has a capital stock and surplus in excess of one million dollars ($1,000,000.00). We are incorporated under the laws of the State of Illinois. This company has been in existence for over sixteen years. Its responsibility is unquestioned. We refer to any Commercial Agency; to any Publisher of any paper anywhere; to any Bank or Banker; to any Express Company; or you can write direct to our depository, the Drovers Deposit National Bank of the Union Stock Yards, Chicago, whose public letter is reproduced herewith. In writing to this Bank we kindly ask you to enclose a stamped envelope for their reply.

DROVERS DEPOSIT NATIONAL BANK

UNION STOCK YARDS,

CAPITAL & SURPLUS $750,000. CHICAGO, ILL.

TO WHOM IT MAY CONCERN:

We take pleasure in testifying to the responsibility of the CHICAGO HOUSE WRECKING COMPANY who is a customer of this bank and who are incorporated under the laws of the State of Illinois, and have a fully paid up capital and surplus of $1,000,000.

They are the leading establishment of their kind in the world, occupying large quarters and employing a great number of people.

The Officers are personally known to us, and we know them to be first-class business men who will carry out their agreements. We recommend them to the business public, feeling sure that any contracts or dealings they may enter into will be entirely satisfactory

Yours truly, DROVERS DEPOSIT NATIONAL BANK.

NOTICE ORDER BLANK

On the last page of this catalogue you will find a conveniently arranged order blank, which can easily be detached. Kindly tear it out, and use when sending us an order. Additional blanks and self-addressed envelopes are gladly furnished you.

Chicago House Wrecking Co.

Capital Stock and Surplus - $1,000,000

Incorporated Under the Laws of the State of Illinois.

The Most Wonderful Commercial Institution On Earth.

LIKE A ROMANCE

In the field of American enterprise the Chicago House Wrecking Co. easily occupies a foremost position. Our business success has been a commercial marvel. This company was organized in 1893 and during the sixteen years of its existence it has successfully executed wonderful dismantling contracts. Its operations are among the notable achievements of recent times and its extensive undertakings in the past have made it a central figure in national undertakings. Like a romance has been its wonderful success. From a business of a few thousand a year it has grown by leaps and bounds until at the present time its business extends over all portions of the globe and ranges far into the millions annually.

There is reason for our success—we satisfy a public need. Our foresight in appreciating a business condition that existed; in conceiving a course and in faithfully pursuing it—that is the combination that has gained for us a most enviable public approval.

OUR FAME AS WRECKERS

The Chicago House Wrecking Co. first came into public note on account of its wonderful dismantling operations. As a matter of fact this company was organized for the purpose of dismantling the World's Fair of Chicago and of marketing the vast quantities of material secured in that way. It was the first step in many wonderful operations that were to follow. Today when some great Exposition closes its doors and the lights are all out, it is only natural to expect the Chicago House Wrecking Co. to take possession. The public looks to us to buy each succeeding Exposition, and we do not disappoint them.

Every Exposition of modern days, that is, since 1893, has been purchased and dismantled by this company. If the immensity of such undertakings and what it really means fails to impress you, then you have never visited one of these wonderful World's Fairs of recent times. But the dismantling of Expositions is only one part of our vast undertakings.

BUSINESS DISASTERS OF OTHERS

It has been conservatively estimated and backed by statistics that only five per cent of the merchants who embark in business make a success of it. Ninety-five per cent meet with business disaster. That's one of the reasons why the Chicago House Wrecking Company exists. Manned by executives of marked ability who appreciate just such conditions, this company aims to obtain possession of stocks of merchandise forced on the market through unnatural causes, and which we obtain at prices far below their actual values. During 1908 the Mercantile Agencies reported **ten thousand business failures.** Something must be done with the stocks of merchandise that were formerly owned by these unfortunate merchants.

This company with an active business eye, backed by its immense financial resources and with its staff of able buyers, purchases such merchandise at practically its own price and gives the public the benefit of it. We do not buy everything that comes along. We discriminate against all shoddy and cheap goods. We are looking for the best there is to be had. There is plenty of it and we assure you we get "The Lion's Share." You take the combination that we offer—good goods at real "wrecking" prices—and there is no power can overcome it. We are bound to succeed and we have succeeded far beyond our utmost expectations. When you deal with us you buy your goods at right prices and once you give us a trial we are sure to serve you often.

THE WORLD'S FAIR OF CHICAGO, 1893

This marvelous Exposition was the result of years of toil by the most brilliant minds and the most skilled hands our country could produce, and its erection represented the expenditure of vast sums of money. Over $30,000,000.00 was consumed in labor and material. It was really the first great Exposition held. The Chicago House Wrecking Co. was organized at the same time the Exposition opened its doors and it was with the primary intent of purchasing the Exposition that this company was founded. It succeeded in its ambition and bought this great World's Fair outright; at its close disposing of it almost in the twinkling of an eye, and its material was scattered broadcast over the length and the breadth of the land. It was the first time in the history of the world that used building material was catalogued and sold strictly by correspondence. It marked the first step in our march to triumphant success.

THE TRANS-MISSISSIPPI EXPOSITION OF OMAHA, 1899

Our next achievement was the purchase of the Trans-Mississippi Exposition, which opened its gates to an admiring public at Omaha, Neb. This wonderful "White City" was built by its enterprising citizens at a cost in excess of $3,000,000.00. It was undoubtedly the most unique and interesting Fair ever shown in the West. It attracted millions of visitors. We successfully dismantled it and its materials are to be seen in many buildings in the Central West.

THE PAN-AMERICAN EXPOSITION OF BUFFALO, 1901

There are many reasons why the great Pan-American Exposition will ever remain an historic event. It was the largest Fair ever held in the East. It cost practically $9,000,000.00 to construct. It commemorated a closer union between the United States and its sister republics. At this Exposition one of the greatest tragedies in American history occurred, namely, the assassination of President McKinley. It was great in its wonderful architectural beauty. At its close we purchased and dismantled it, and thus the East also shared in our money-saving operations.

LOUISIANA PURCHASE EXPOSITION AT ST. LOUIS, 1904

When you think of this great World's Fair all others sink into insignificance. The fact that fifty millions of dollars were needed to build it complete gives some faint idea of its magnitude. All other Fairs could easily have been lost within its walls. Its mammoth buildings were the largest ever constructed for exhibition purposes. It is estimated that the material used in building the St. Louis Fair would be sufficient to build outright a city with a population of 50,000. It required very nearly five years to complete the Exposition. It covered thousands of acres. A river was turned from its natural channel to give it space. It was the culmination of real American enterprise. When its gates were opened in 1904 it was as finished a production as this world will probably ever see in the Exposition line.

Very few can understand the magnitude of dismantling such an institution as the St. Louis World's Fair. It would be necessary for you to have been at St. Louis; to have gazed upon the wonders of this great Fair, to appreciate the full meaning. It would be necessary for you to have viewed its lofty and extensive buildings; to have seen this great city with its highways and byways, its monuments and its galleries. Then you would begin to realize what it means when you are told that all of this must be removed; the ground covered again; and the river that originally flowed through these grounds be again turned into its proper channel; that during the dismantling operations all of this vast acreage must be protected against fire and theft. That it must all be taken down with care, so that it can again be used.

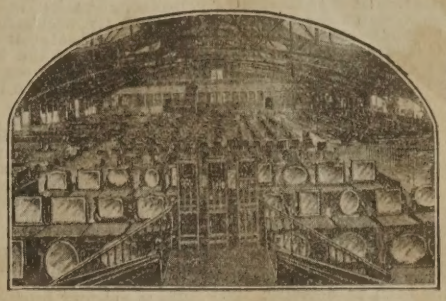
It is much easier to build than to dismantle an Exposition. Our company is a preserver and not a destroyer. We save to the markets of commerce millions of dollars worth of merchandise that would otherwise be destroyed. At the close of the St. Louis Exposition everything came into our possession; the buildings and the furnishings; the street railways and the fire department; the guards' uniforms; the trees, the flowers and the shrubbery; the fish in the lagoon, and the very air became absolutely our property. We completed the dismantling of this great World's Fair within a given time and its materials are now entirely out of our possession. Thousands of homes and buildings have parts of the Exposition in their composition.

Snapshots of Interesting Points About Our Plant

We present herewith a few interesting views taken haphazard at various points around our institution. Our institution with its 40 acres of ground makes quite an interesting place to visit. Thousands of our friends who have called on us in the past will confirm this. Why not make a trip at your convenience?

Roofing Manufacture.

We manufacture most of the steel and iron roofing that we offer for sale. Our shops are equipped with up-to-date Corrugating Rolls and Moulds for the manufacture of brick siding, beaded ceiling, etc. Automatic Painting Machines — Improved methods of trimming — Safe Propelling Trucks; in fact, everything is of an up-to-date character.

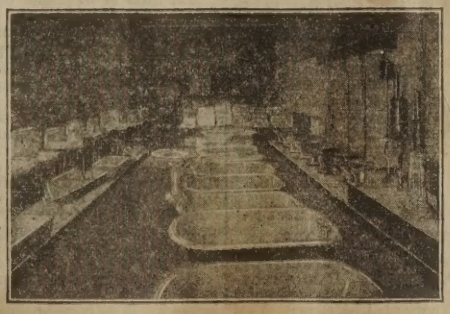


Furniture Display.

It's a pity there isn't more room to show what this display room of ours looks like. It's the most marvelous room ever used for a similar purpose. The ceiling is 41 feet in height. The building in which this picture was taken is devoted entirely to the display of furniture. It's about as big a building as one can imagine. It's 500 feet long and 150 feet in width. Every article in our furniture stock is brand new and first class.

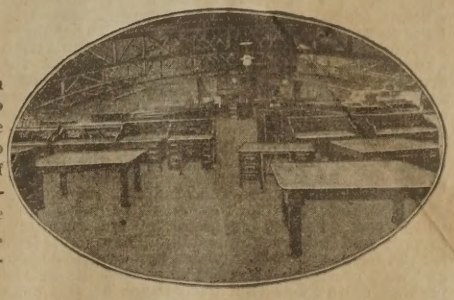
Plumbing Sample Room.

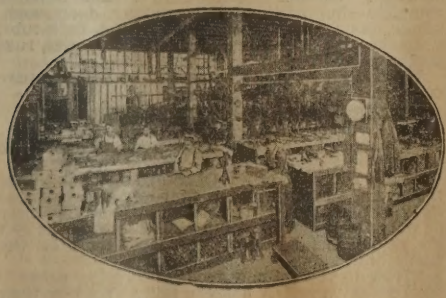
It would be impossible to show a complete picture of our Plumbing Department. We have at least three different store rooms devoted to the storing of tubs, closets, lavatories, pipe and fittings. We have always in stock upward of 1000 cast iron tubs. Will safely say that no plumbing jobbing house anywhere carries a larger stock. We can fill your every want in the plumbing line.



Office Furniture.

That's a specialty with us. No larger stock to be seen anywhere. The picture was taken just to show one small corner of this wonderful Office Furniture Department. We supply offices complete, everything needed. Better write us.

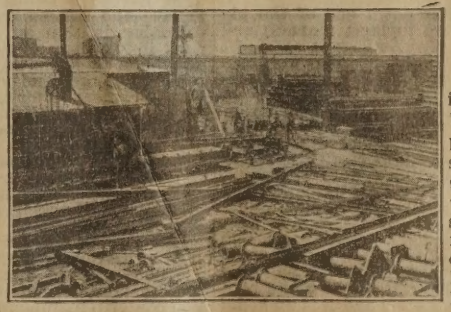




Our Hardware Display.

This partly shows our display of hardware. We have everything in this line — shelf hardware — heavy hardware — tools, pumps and general equipment. You are safe in asking us for anything pertaining to hardware.

In addition to the view shown we devote one large warehouse to storing stocks accumulated from Sheriffs', Receivers' and Manufacturers' sales.

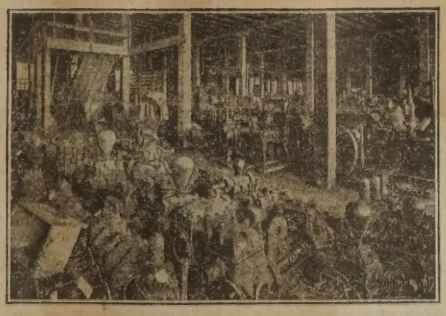


Manufacture of Structural Iron.

is a specialty with us. We can furnish a complete building; every single bit of iron all cut to ship, and shipped along with a blue print that shows perfectly how to finish the job. We do everything complete. No half work about our propositions.

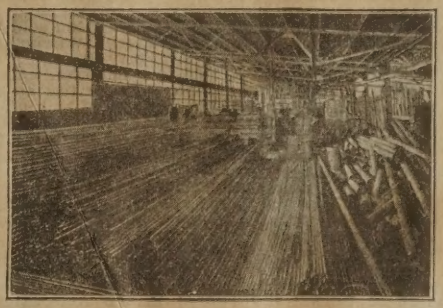
Machinery Warehouse.

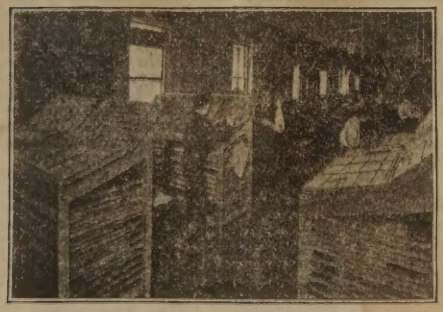
At its best this picture fails to tell the story. Patrons to our plant gaze with astonishment at the vast stock of machinery on our floor. The view shows the stock before we overhauled it. We have about ready for occupancy a large steel machinery building 500 feet in length; it will be ready for the public by the time this catalog reaches you.



Our Pipe Shop.

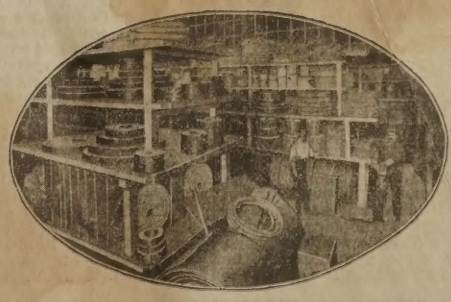
This is one of our specialties. There is no waste in our business; we preserve. This picture shows a part of our Pipe Overhauling Plant. Careful inspectors watch each length as it goes through this building and every foot of pipe shipped is "right" for the work it's intended for.





Our Printing Department.

Here is one little corner of our Print Shop. Time counts with us. We buy our stocks today and tomorrow they are sold. We have got to move fast, therefore it's necessary for us to have our own composing and printing room right in our plant, so that we can promptly notify the public of our purchases.



Belting Department.

This room contains $50,000.00 worth of new rubber and leather belting, garden hose and fire hose and articles in general that belong to the sale of mechanical rubber goods. It's as clean as a kitchen, but it's a busy place and we daily ship upwards of 200 orders to all parts of the country.

Extracts from Famous Writers

Impressions of Visitors to our Great Institution

LAYING ST. LOUIS FAIR IN RUINS; By William E. Curtis, Journalist of Chicago.

(Special to the Record-Herald.)

ST. LOUIS, June 13.—It is almost as much of a job to get rid of a big exposition as it is to create one, and it is even more fun to watch the wreckers tearing down a building than it is to see the builders put one up. Destruction is more entertaining than creation in many lines of activity, particularly to those who destroy—as, for instance, Admiral Togo.

There is a melancholy aspect to the question, a pathetic and a profound sense of regret, to see magnificent buildings torn to pieces; $17,000,000 worth of architectural triumphs razed from the face of the earth. Of course, the St. Louis people had to get Chicago men to do it—the Chicago House Wrecking Company, the same that pulled down the government building at Chicago some years ago and removed what the fire left of "The White City." They also destroyed the buildings of the Omaha and Buffalo Expositions. It took them eighteen months to clear away the ruins from Jackson Park and nine months each to demolish the Buffalo and Omaha expositions. Here they have two years in which to do the job, beginning with the latter part of March, when the exposition officials moved out, and the wreckers moved in their force of 1,200 experienced men. They have a complete fire department and police organization and are very strict about smoking around the grounds, because they lost several thousand dollars at Chicago by the burning of th. Manufacturers and other buildings, which, they say, were set on fire by the strikers.

The Wrecking Company paid $450,000 for everything within the grounds, including the fence—excepting a few of the foreign and state buildings. They paid $600 for the Ohio building, which cost $175,000, and $3,330 for the Pennsylvania building, which cost $300,000, including all the furniture, carpets and other equipments. They paid $600 for the German building, which cost over $100,000, and were much disappointed when they discovered that all of the beautiful decorations on the walls and ceilings were painted on canvas and had been sent back to Germany.

When the wreckers tear down one of the big buildings they start at the topmost pinnacle and work gradually downward. As fast as an object reaches the ground it is seized by other workmen and carried to its proper place. Very little is wasted.

Three million pounds of copper wire, which originally cost the Exposition Company $900,000, has also been secured. It is the most profitable item. Every foot of it is carefully inspected, it is reeled upon the original spools, which were preserved, and the large part of it is as good as new. The wreckers have about a million electric bulbs, which they are disposing of in lots to dealers and contractors in that sort of supplies. There are 125,000 bulbs on the Varied Industries building, and there were nearly 200,000 on the Electrical building, inside and out. About 900 carloads of sewer pipe have been taken up from the soil and it is all being cleaned and inspected, ready to be offered for sale; 2,000 carloads of lumber have already been shipped to various parts of the country, and several hundred carloads of doors and windows have been sold to contractors who are building factories, warehouses and other cheap structures. Forty-five miles of railroad iron have been sold to a suburban trolley railroad company in Illinois; 100,000 ties at 30 cents each, which cost 50; 400 tons of spikes for 1¼ cents each, which cost 2 cents each, and 3,000 telegraph or trolley poles for $9, which cost $12 each. The trestle work on the intramural road has also been disposed of.

The Horticultural, Agricultural and the Forestry, Fish and Game buildings have all been torn away, and nothing remains to mark where they stood except enormous piles of lumber, which are being carefully sorted over and trimmed at a sawmill, buzzing away at the very spot where the big ears of corn were displayed. There were 11,000,000 feet of timber and lumber in the Agricultural building, of which about 80 per cent, was recovered in commercial sizes. The bigger the building the less the lumber is cut. Three million feet of lumber were saved from the Horticultural building, and Mr. Harris, the manager for the wrecking company, tells me that they will save, altogether, about 90,000,000 feet, which will sell for $11 a thousand and upward. Lumber that has been badly used and is full of nails is cut into short lengths for fuel and other purposes. Lumber is the greatest item of salvage, and from that alone the wreckers expect to reimburse themselves for all they paid to the Exposition officials.

There is an enormous quantity of construction iron in the buildings, but none of it has thus far been sold. The big arches of the Manufactures building at Chicago were sold for a steamship pier in New York, but were made worthless by the fire and had to go to the scrap-heap. Out of the other buildings at Chicago, however, came a big steel mill near Pittsburg, the car shops at Harvey, near Chicago, and several of the buildings in Dowie's town of Zion, near Waukegan. The biggest Catholic Church in Milwaukee, belonging to a Polish congregation, in care of Father Krutza, was built from the wreckage of the Chicago post-office. The Illinois Theater at Chicago, is built of it also. The buildings of the shipbuilding plant at Fore River, Mass., came out of the Buffalo Exposition, as did the shops of the Lamb Wire and Fence Company, at Adrian, Mich.

The wreckers paid $80,000 for the Chicago buildings; they paid $90,000 for those at Buffalo and $60,000 for those at Omaha and made a profit, and they expect to mak big money here. Most of their business is done by correspondence. People write to them for everything imaginable. Mr. Harris got a letter the other day from an old lady out West who asked him to send her a souvenir of the Exposition—something she could keep and hand down to her children. She said that even a nail would be welcome.

There are four brothers in the company, sons of M. Harris, one of the early settlers of Chicago, who lived in that city sixty years until he died four years ago. They, like their father, are natural Yankee traders, and will buy anything on a speculation that is offered them if they can get it at their price.

At the close of the Chicago Exposition they bought the Ferris Wheel for $9,000, although originally it cost several hundred thousand. They spent $175,000 to take it down and set it up again at St. Louis, and now they are negotiating with a syndicate that proposes to remove it to Coney Island, New York.

WILLIAM E. CURTIS.

SERVING THE CITY AND CONTINENT; By Allen Reed, Journalist of Chicago.

I have satisfied my curiosity regarding the Chicago House Wrecking Company. It is probably the same curiosity everybody has. It is wakened first by the name. It gives mental pictures. You see the building that was situated where the new Corn Exchange Bank is now — at the corner of LaSalle and Adams Streets—being destroyed and vanishing in thin air. Today it is there. Next week it is a mass of ruins and month after next new building looms twenty stories high.

You note men and machinery doing the tearing down and great teams carrying away the iron-work, stone, lumber, and interior fittings and passes through your mind something regarding the utilization of such material through modern methods. But we don't any of us have much time to ponder and so we remotely get impressions of buildings coming down and going up and incidentally of that House Wrecking Company. Its advertising attracts us.

Cleverly, straight-forward, it advances the argument of bargains. It details a marvelous range of selection—oriental rugs to boilers, furniture to foundry fans, retired street cars to old paintings. You conceive reasons why such things should come when houses are wrecked—and you marvel if the "wrecking" isn't sometimes financial more than physicial—"receiver's sales"—"bankruptcy."

And while the nebulous ideas are hazily forming you happen to ride out Thirty-fifth street on a street car or in an auto and you see a big sign—"Chicago House Wrecking Company."

A CONCERN THAT OCCUPIES FORTY ACRES.

"Big concern," you say to the man next you.

"Occupies forty acres," he tells you. "It is the company that tore down the World's Fair buildings here in '93 and then in St. Louis. It tears down buildings and buys stuff all over the continent. Lots of if new, too. Lumber and rugs for instance," and your eyes scan a vista of enormous structures, an immense area of yards and side-tracks.

After passing the place several times and reading those ads offering things about half cost, I yielded to impulse one morning and swung off the car when it stopped in front of the House Wrecking Company's office. Inside I found a bank. At least it looked like a bank—marble semi-circle of grilled windows labelled "Receiving," "Paying," "Discounts," and I asked the man—he was the courteous kind that these big Chicago concerns have to direct customers—"Where'd you get it?"

A FAILED BANK FURNISHED THE FITTINGS.

"Ward Bank. It failed eight or nine years ago and we bought its fittings."

"Then you do buy effects of failed firms?"

"Yes—but I will refer you to the manager," and upstairs I found him—the center of telephonic, stenographic, advertising—salesmanship activities that wouldn't have left him a second for interviewers if he hadn't the quick decisive way that characterizes men who win.

The failure class haven't time for anything or anybody and that's why they fail, because—all of us—farmers and interviewers and city customers like to feel the personality that is behind business and don't have confidence in a concern that eliminates it.

THE COMPANY BEARS EVIDENCE OF EMPLOYING THE RIGHT SYSTEM.

There is almost as much personality about the Chicago House Wrecking Company as there is about a country store or a country bank. It's wide open. Anyone can walk right into the manager's office—just as I did—just as I saw others do—a stylishly dressed Chicago lady, for instance, whose automobile was waiting outside.

"Pleased with those rugs" the manager asked as he O. K'd a sales-slip.

"Very, very much so," she answered, "And I have been buying more."

When she had gone out and we were deep in that interview—I subjected him to the same cross-examination I do railroad presidents, he said, "The idea is to make our selling automatic. We figure once anyone finds out what we have here we shall have his or her custom for life."

IT SELLS FIRST HAND AS WELL AS SECOND HAND.

"But you can't always count on a supply of second-hand goods."

"A great deal is not second hand. We buy the entire output of factories and mills, the stock of stores. We are buying oriental rugs abroad now—our president is over there selecting them. Take lumber—our yard is full of it and there's an enormous amount of it we own which we deliver to customers direct from the mills. We buy it first hand. We couldn't begin to supply our demand from the small amount of lumber we get out of buildings we wreck.

"We are about as large a lumber concern as there is in the world. Perhaps we are or shall be the largest. Lumber is our most important article of trade. We aim to sell a man a whole building complete—building materials, roofing, doors, sash, blinds, glass, paint, flooring, plumbing, bath-tubs, sinks, heating apparatus, furniture, draperies, rugs and carpets.

We can do so easily enough if he will compare our prices with anyone's else."

PRICES AVERAGE FORTY PER CENT UNDER THE USUAL.

"How much do your prices average under the usual?"

"Fully forty per cent. Of course on some things the average is lower than that—even as high as sixty per cent. On some staples the saving may be only thirty per cent, but added in with the rest the saving is fully forty per cent or more on the whole bill."

"How do you get new goods at such low prices?"

"Lots of ways. A concern fails. We buy their goods at receiver's or sheriff's sale. You know what that means. We are watching for such chances all the time. A factory needs money. 'Take our stock on hand at your own price—for cash'—it says to us. Last winter when times were panicy we went South and bought the entire output of some big saw mills. Nobody else in the country was buying lumber. They gave us the 'glad hand,' all right."

THE CURIOUS CASE OF WOLLENSACK, THE "KEY KING."

"Sometimes there is an interesting story connected with buying goods. For instance, we have an enormous stock of keys on hand. Behind them is the story of J. F. Wollensack, a German, who came over to this country years ago and started a little key and locksmith shop in the heart of Chicago—corner of Lake and Franklin. He prospered till he had a big building of his own and was supplying his famous keys to Eastern lock concerns; had a trade all over the world. He paid his bills in full every week. He was a curious character. He always locked up the place personally. One night he locked up and didn't come down the next day. Nor the next, nor any day. He vanished. The papers of that time were full of it. They found no clue. He owed no one, there was no evidence of foul play. The business stopped with his disappearance. Long afterwards his son found him in Los Angeles, living quietly—he said he had retired and that was all. The son asked him why he didn't continue the business. 'Don't want to. I am done,' was his answer.

"His son persuaded him to give him power of attorney and he moved that stock of keys—thousands and thousands of them—over to a store-house where they lay ten years waiting a buyer. The son would sell a few keys once in a while, but he couldn't find a purchaser for the entire stock till he came to us. We made him an offer and took over the whole assortment. 'Come and see them,"

Extracts from Famous Writers—Continued

and we went out through a big mailing room where scores of stenographers were busy answering correspondence, through a transportation room where managers were "routing" shipments over various railroads and through a printing plant where the firm's catalogue, its "Book of Plans" for house-builders, its "Hardware News," etc., are turned out and next to the big dining rooms where the office employees luncheon largely at the expense of the concern, we found rows on rows of cabinets filled with bright brass keys ready for final shaping, desk push buttons, speaking tubes, etc., so carefully packed that the entire stock seemed as good as new—and yet purchased by the House Wrecking Company at such a low figure that for years to come it will be able to under sell the key market.

WE MADE A TRIP THROUGH THE PLACE.

Thence we went through the place. It's too big to describe in detail. It resembles a World's Fair—and here you find the mortal remains of two World's Fairs—valves used at St. Louis and so big they are not to be found in stock elsewhere, piping of every size, the turn-stiles, the coin receiving devices and the steel structural work including the sole surviving relic of the famous "Ferris Wheel"—a steel shaft so big that nobody will buy it, not even the great Bessemer steel works and which, fifteen years after the Fair is over, lays outside the farther line of buildings of the house-wrecking company—to be broken up into "scrap" some of these days, along with the scores of Cottage Grove cable cars which are too delapidated to be sold for suburban use or employed as chicken coops or play houses.

BUYING STREET CARS FOR CHICKEN COOPS.

"Chicken coops and play houses?"

"Yes. We have sold several for chicken coops and a man bought one the other day as a play house for his children."

"How much?"

"Hundred dollars," he replied, as we sat down in the rear seat of a former "grip" car and I viewed the crowded array of some three hundred open and closed cars awaiting their fate.

"Highest they bring?"

"Some three hundred. They cost twelve hundred new. Sixty-five dollars is the lowest we sell them at."

"Track?"

"Miles of it."

"Cheap?"

"About twenty-two dollars a ton."

Then we gazed on piles of old iron and steel heaped high as a two story building, the best part of everything having been sorted out, those Cottage Grove cables, for instance, making fine steel rope for various purposes, and after that we went through a region where pipe in size from smallest to largest was being straightened, sent through a "rattler" that cleans the outside of the pipe by abrasion, while metal brushes do ditto to the inside, ragged ends are sawed off, the new ends are properly "threaded" and the pipe is sold for half its original cost, "though it is good as new and we can't get enough of it," said the man from the office. "We just got in twenty-five carloads of it and could sell twice as much as we can get hold of. The fact is the tremendous demand for gas, water, and other kinds of pipe is using up new pipe faster than it is made and creates a keen call for second hand pipe."

SECOND-HAND PIPE, ROOFING STRUCTURAL STEEL, GOOD AS NEW.

He showed me the ends of pipe, of structural steel, roofing, etc., to demonstrate that under the surface the metal is as bright and flawless as ever.

In the renovating of steel sheets for roofing and partitions the idea is to make it look same as new. After the sorting and straightening out process, the corrugating, the brick+and the "V"—stamping machines get in their work and automatic painting machines put on a first coat to be followed by a hand-painted exterior, the plant where this is done being about as big as any two or three factories of the same order anywhere in the world.

"Sell these for new?"

"No. If anything is second hand we sell it as such. If it is new we sell it as new. Here, for instance are several car-loads of 'Rubberized Galvo,' ready-to-lay roofing. We need lots of it and we buy it new; direct from the factory at a price that enables us to undersell the market."

THEY HAVE CAREFUL INSPECTION IN THE SHIPPING DEPARTMENT.

We saw them at work in the shipping departments—a big place where the job varies from careful crating of breakables to placing whole engines on the flat cars. "Careful inspection protects both us and customer. Two inspections are given all plumbing goods."

"What's your cheapest bath tub?"

"Six dollars."

"Most expensive?"

"Here's a solid porcelain that cost $75. We sell it for a third of that. It was slightly below perfection—a back corner knocked off, an inch or so only and we make that good as new. But we buy it and sell it cheap—much less than it cost to make. We sell a whole bath-room outfit—tub, lavatory and closet, with the fittings and piping, for $25.00 up to $150.00."

"Many farmers buying bath room outfits?"

Thousands of them. They want the most up-to-date homes they can get—and when they come to us we enable them to get everything they want at prices which have completely outfitted many a farm home that wouldn't otherwise be more than half fitted or furnished. This system of ours distributes a vast amount of valuable production that would otherwise remain unsold. We think our name a misnomer. Instead of House Wreckers we are House-Builders, Home-Makers, we preserve instead of destroy." And then we spent half an hour interestingly with hardware in which the company is a complete establishment all by itself; wire, in which it carries fencing small enough to restrain infant chicks and large enough to hold a herd of elephants, and has on hand a whole boat load of ordinary wire salvaged from the bottom of Lake Michigan (for the Wrecking Company does not appear to confine its rescue work merely to dry land) but not looking as if it had ever been outside the wire-factory, so unrusted was it; grindstones, insulation, machinery from one horse-power gasolines up to thousand horse-power Corliss kind; centrifugal pumps, motors, dynamos, wood pulleys, radiators, complete heating apparatus; vault doors that cost four or five hundred going for fifty and all spic and span with new paint; windmill towers at twelve dollars up; pneumatic water supply outfits and the air pressure kind, at prices that make any man able to have his whole house piped for water no matter where he lives; belting of all kinds and in which the company seems to command a world-wide trade, carrying a stock that permits any belt-using concern to wire for a piece of belting or a whole belt with certainty of the order being shipped next train.

"BUT THIS ISN'T THE C. H. W. COMPANY'S CATALOGUE."

"But Mercy—this isn't the C. H. W. Company's catalogue. It takes that whole book—464 pages of description, pictures and prices—to tell the story. It gives the data of the whole twenty-two departments and opens with a certification from the Drovers Deposit National Bank that the Chicago House Wrecking Company is the leading establishment of the kind in the world—has a million dollar capital and surplus and is officered by men known to the bank to be worthy every confidence. It closes with a chapter on lumber in which specialty it seems to be competing with its oriental rug department for supremacy, the lumber department being the biggest thing it has out-doors and the rug department the biggest in-doors. The rugs are far more restful for a fellow who has been all over that forty acres of ground and floor space, especially when he can sink back into the depths of a forty-five dollar Mission easy chair that sells for seventeen fifty and hear the story of how the company can out-quality and undersell the most aristocratic concerns on State street in both rugs, carpets, tapestries and furniture.

THE AUTOMOBILE PUBLIC SEEKS THE HOUSE WRECKING COMPANY.

This trade comes from all over the country—all over the continent. The company ships lumber—**lumber**, mind you, clear up to the Canadian Northwest Territories, being able to sell it in competition with the native product grown in the Canadian Rockies a thousand miles nearer the Canada-west market.

Something has been said about the company opening a department store in the Loop District—but why should it?

It has a great advantage in being off by itself where its customers can confine their undivided attention to its offerings and do their selecting apart from the rush and turmoil of the retail district—and in fact it has already so much of an attraction to a large number of Chicago's most discriminating shoppers that they prefer to seek its great airy, wholesome rooms where things are displayed with space enough to do them justice than to mingling in the jostling hysteria of downtown. As a matter of mercantile wisdom, why isn't it better for a great big place like this to remain as it is, a distinct establishment among the enterprises of this center city of the continent, serving a continent and not merely a single city?

NEEDLES AND ELEPHANTS!
By E. A. Foley, Journalist of Philadelphia.

Can you mentally picture five or six of the biggest department stores you have ever seen, all moulded into one, with the elimination, perhaps of a few of the dress goods departments; then with a dozen big machinery shops added; two or three great warehouses, a rope walk, the biggest plumbing supply house you know of, and two or three immense old iron and steel establishments? If you can grasp the potential possibilities of such a combination, you will have a faint idea of the enterprise the Chicago House Wrecking Company is conducting to-day.

One day the manager of the Company received a letter from a resident of the Pacific Coast. "Can you send me an elephant? I understand a person can buy anything of the Chicago House Wrecking Company from a needle to an elephant."

Absurd as that sounds, it was not so far away from the truth.

Anyone wanting a real live elephant can be accommodated on short notice by the Chicago House Wrecking Company who knows just where to put their hands upon any article not already in stock and who know—which is perhaps even more important—just how to get it at a good percentage below the regular commercial price.

One of the Chicago House Wrecking Company's chief activities consists in relieving people who have "elephants" on their hands.

An Exposition is brought into being, runs its brief career of brilliancy, closes, and then remains a thing of useless buildings and clap-trap for the stockholders to contend with and lie awake o'nights to worry regarding the turning of staff, lumber, metal, old exhibits and the thousand and one paraphernalia of a great Fair into actual money.

When Chicago had its World's Fair the "Elephant" that was left was truly a white elephant. Everyone remembers that this wonderful exposition was known as "The White City."

The Chicago House Wrecking Company made its first ten strike right here.

It took that "White Elephant" off the hands of its owners, ripped the thing to pieces, sorted the lumber, the metal, the furnishings and all the other confused conglomeration, resold it to these in the market for the various materials, and virtually opened a way to the making of something from what would at first seem to be worse than nothing.

The Buffalo Exposition followed, and here, too, the Chicago House Wrecking Company did some wonderfully clever things in reclaiming building materials in such a way as to make their employment in other operations a matter of both economy and convenience.

So in more ways than one it is true that the Chicago House Wrecking Company knows how to take care of "Elephants."

In a "Hay Stack" eleven acres broad you would think it would take a mighty big needle not to get lost entirely.

But you can find everything that you want in the Chicago House Wrecking Company's plant and do it in a few minutes after you set out on your journey from the main office to the building or enclosure which contains the particular sort of thing you desire—that's what System does.

You can find an anchor weighing several tons and you can find a little brass bowl from Egypt just as quickly.

The man who has the general direction of this wonderful establishment is backed up by an immense corps of clerks and systematizers and in a few moments he can tell you just how many enamel bath tubs of the first grade he can sell you—if you happen to be a contractor with a hotel to erect; or he can turn you over to an oriental rug expert who will show you a Teheran, a Tabriz, a Serapi or any other rug you want—and that, whether you wish to pay $25 or $10,000.

Not long ago a big New York oriental rug importer found it impossible to meet his bills and after an unavailing struggle he was forced to the wall. The Chicago House Wrecking Company's managers went to New York City and bought up all the stock which ran into hundreds of thousands of dollars, but they had the ready money, and bale after bale of almost priceless rugs were secured at half price or less and that means **real** half price and not the sort that you so often read about in advertisements.

This represents only a small detail of the actual furniture, rug, and carpet business of this marvelous concern. Very few furniture houses in the country have the floor space which the Chicago House Wrecking Company occupies for its furniture department alone. Even here the organization's marvelous capacity for making use of things, no matter how "unreal" or impossible, was manifested.

The building in which all the furniture and rugs are stored was an old railroad depot with an immense arched roof of steel and iron.

The Chicago House Wrecking Company tore the depot down, took its roof apart, moved the whole thing to its plant and set it up again to become an up-to-date furniture store—one of the lightest in the country.

When you visit Chicago, don't fail to see thir wonderful place. No matter what you may need you can save from a quarter to a half from the lowest market prices—and just as a "Place of Wonders" it is worth going miles to see.

GENERAL TERMS

Terms

Our terms are uniformly spot cash. By that we mean we require a remittance in part or in full with all orders. Do not take any exception to this rule; it isn't intended as a slur on you; it's one of the means that enables us to sell our goods below any one else on earth. We never have any losses. When we sell you an article the profit is exactly what we estimated. Not like mercantile houses who sell goods on time: they have a certain percentage of loss each year and even if you are prompt pay you help to balance the loss they sustain from customers who fail to pay their bills. We do not ask you to do something that we wouldn't do. We buy for spot cash: as an instance, we cite the fact that we purchased The World's Fair of St. Louis for $450,000.00 and paid it in cash: that means before we got the goods.

On all new material quoted in this catalog we will ship C. O. D., provided a deposit of 25 per cent accompanies the order, balance C. O. D. Now understand there are exceptions to this rule: for instance, if you live at a point where there is no Freight Agent we cannot ship C. O. D., but require remittance in full in advance. That's explained more fully under the head of our "Freight Rates," page 9 to 12.

How to Order:

In sending us your order use every precaution to make it so plain that there will be no question of our misunderstanding you. By doing that you will eliminate a large percentage of trouble that might occur afterwards. Always write on one side of the sheet. Do not try to save paper. Write your name, town, county, state, R. F. D., or Post Office Box so plain that anyone can readily make it out. Wherever possible use our printed Order Blanks, which we are glad to furnish in any quantity you desire. If you use our Order Blank fill it out completely. You will find at the top we ask numerous questions; see that each one is properly answered. If you haven't an Order Blank handy then follow out this course: Give us the number of the catalog from whence you are making your selection. If the material has previously been quoted you by letter give us the date of the letter, the initials of our correspondent and stenographer, which you will find at the head of the letter. In all cases give us the number of the article, the page in our catalog and the price per piece and extended. As near as you can add up the total of your order.

Advise us exactly how to ship the goods, that is by what Railroad Company, Boat Company or Express Company. Tell us whether there is a freight agent at your shipping point. If there isn't, your order must be paid for in full and sufficient money sent to prepay the freight charges. You can approximate the amount and if it is short we will advise you, if over we will remit the difference to you promptly.

Let us know whether we may substitute as near as possible in event of our being sold out of some article in your order. We want to fill your order right, that's our whole object and you can help us to accomplish this.

It's wise to keep a supply of our Order Blanks on hand at all times. Also ask for some of our Return Envelopes. If you haven't any handy when you send in the order be careful to write the correct address on the envelope. Do not forget our address.

Chicago House Wrecking Co.

35th and Iron Streets

CHICAGO, ILL.

Our Shipping Facilities

Our shipping facilities are the best to be had. We have railroad tracks running to all of our ware houses and load direct from our shipping room, so that we can send a car from out our shipping office right to your point, even through it be in California, without the necessity of having it reloaded. Of course, you will appreciate what that means.

We carefully pack all goods. We want them to come to you in proper condition for the purpose they are intended for, and we do this by carefully packing and loading our merchandise. Of course, in a case of less than car-load shipment we can only pack the goods right and load them in a mixed car.

We are located on the most famous Railroad System in the world, namely, The Chicago Belt Line. We connect with every traffic line entering and leaving the city of Chicago.

We employ automobile trucks in moving goods to all parts of the city, so that we are in direct connection also with steam boat lines and every other freight transportation.

Our Traffic Department is efficient in every way. They correctly solve all railroad matters for you. The routing of your goods is faithfully observed so that the least possible delay exists from the time when goods are packed until they reach you.

We are also careful to take care of your every want in the matter of freight rates and all goods are billed with that in view. Very often ignorance on this point entails a loss that could have been averted. Our province is to serve our customers' best interests at all times and under all conditions. You will appreciate this fact fully and if you are a patron of ours now you will understand how carefully we observe your every interest.

In the shipment of lumber we take great pains to load so that the material can be handled easiest when it reaches destination. We are proud of our carloads of lumber; they are the finest that leave Chicago.

As an idea of the extent of our traffic, we have often handled 100 complete carloads in a single day. Do not think we are only after carload orders; we relish the small ones as well as the big ones; "Great trees from little acorns grow."

Do Not Hesitate to Ask Us Questions

Write us for all the information that you want. We are glad to enlighten you; that's our business. We employ over 100 stenographers and have a large force of corresponding clerks. Our Information Bureau is always at your service.

In each of our lines we employ expert service; for instance, in the Constructing Department we have architects, draftsmen and structural iron engineers who are able to answer you on any point. We are anxious to do everything within our power so that our offer will become perfectly clear to you. In our Plumbing and Heating Department we have expert engineers who have devoted all their lives to the subject; they can probably tell you a great deal more than you could learn locally as to your particular needs. Even if we do not eventually secure your order we will be glad to lend you every co-operation; it's here for that purpose. After a while you will come and say that you will give us part of the business and that will be satisfaction sufficient. We do not expect to sell everyone who writes us, but we will make an honest endeavor to secure the order if meritorious offers and honest descriptions count. When we back low prices with fair, square dealings it is bound to win out, and the truth of this is to be seen in our wonderful institution, so whether you have bought from us or not write us for information; ask us questions on any pertinent topic connected with the goods you need.

GENERAL TERMS---Contd.

C. O. D. Shipments

We urge you to avoid C. O. D. shipments. It is a constant cause of trouble to our customers and offers you no possible advantages. Our liberal, broad binding guarantee protects you so amply that you need have no fear or hesitation in sending money in advance. If you send us more money than your order amounts to it will be returned. If you receive any articles not satisfactory we will adjust it. Our Capital Stock and Surplus is sufficient to make you safe.

When you order goods C. O. D. it means **Cash on Delivery.** Now where goods are shipped by freight it necessitates our attaching Bill of Lading to a draft and drawing on you through some Bank; if there isn't a Bank it means we have got to draw through the Express Agent—we cannot draw through the Freight Agent. Please bear that in mind. Railroad Agents are not supposed to collect money in that way; it's either the Bank or the Express Company. There is expense attached to it every time. Banks do not perform their work without being paid for it; neither do the Express Companies. That adds expense which is entirely unnecessary and uncalled for. The expense for the return of the money is paid by you.

Express Shipments

We advise against making express shipments except where weight is not over 20 pounds, because the expense of shipping by express is so much greater than by freight. In all cases where goods are ordered shipped by express we require remittance in full in advance. The Express Companies insist on our guaranteeing all charges on such shipments; that is, if for any reason the shipments are refused at destination the Express Company would return them to us and hold us for charges in both directions, and that is our reason for asking for remittance in full.

Where an order is received without any specific instructions as to how shipment is to be made, we use our best judgment, always in the interest of our customer, and if it is more profitable to ship by express than by freight it will be shipped that way.

Shipments Direct from Factory

In many instances we purchase from manufacturers merchandise in large quantities and arrange to allow such stock to remain at the point of purchase. This gives us an opportunity to sell the goods at much lower prices than if they were to be shipped on to us at Chicago, and we give our customers the benefit of it, therefore you will find many articles in this catalog that are shipped direct from factories at certain points. This bears more especially to articles in the furniture line. There are also some general articles, such as tanks, scales, etc., shown in various parts of this catalog that are also shipped direct from the factory. On application we will advise the approximate freight charges to destination on any of these goods.

Freight Prepaid Prices

All quotations in this book are sold NET CASH F. O. B. CARS CHICAGO and not subject to any further discount, and all merchandise is offered subject to prior sale. On application we will quote freight prepaid prices on any article listed in this catalog. On two special lines in this catalog you will find we are quoting "Freight Prepaid Prices" to certain states. Do not confuse this quotation with any other section of our catalog; it refers only to the new steel roofing, siding and ceiling, a full and complete explanation of which is given in that section of this catalog. It has nothing whatever to do with any other quotations.

Club Orders

If it is possible for you to make up an order for a carload of material it will give you much added advantage. Perhaps you can get your neighbors to "club" in with you, thus enabling you to make up a large shipment. The necessary weight of a carload shipment is explained on pages 9 to 12, covering "Freight Information." By shipping a carload we can send it through to destination without the railroad company ever touching the contents again, therefore would advise, wherever you can, to make up carload orders, even though it necessitates your clubbing together. We will load the goods in such a way so that each order can easily be distinguished.

As to Delayed Shipments

We readily recognize the virtue of shipping goods promptly and our constant aim is to perfect our organization so as to "promptly deliver the goods," but conditions arise that sometimes prevent us from executing our good intentions.

When you send us an order display as much patience as you possibly can. Recollect it takes time for the order to reach our hands. Upon receipt of the order we send you an acknowledgment postal card, giving you the number of your order and the date of its receipt here. Allow the natural amount of time to elapse from our receipt of your order in our hands until the Forwarding Company receives it; then if you think there is an unnatural delay drop us a card, giving us your order number, its date and the amount of your remittance and we will give you prompt advice in the matter.

Our Location and How to Reach Us

We are situated on 35th Street three miles from the center of the city and about 35 minutes ride by street car. Our plant is located midway between Halsted St. and Ashland Ave. The 35th Street surface cars stop before our main entrance. We extend from 35th Street to 37th Street on the south and from Iron Street to Laflin Street on the west. About as large a city Institution as one can expect to find. Our place can be reached from the center of the city by any of the south bound cars. When you pay your fare ask the conductor for a transfer, get off at 35th street and then travel west; or take the South Side Elevated train as far as 35th Street and then the surface street car directly to our place. Any conductor or policeman knows our location. We extend you a cordial invitation to visit us whenever convenient. It makes no difference whether you come with buying thought or whether out of idle curiosity; we want you to come. It's the best way we know of to advertise our business. No matter how elaborate our descriptions may be, or how graphic the story of our immensity, you fail to properly grasp the situation until you've been here, then you will exclaim with hundreds of thousands of past visitors "We had no idea what an enormous institution you had." Do not forget, our story is not overdrawn; in fact, if anything we are overly modest. We do not want you to gain the impression that our story is founded on any imagination. We deal always in facts, so come and see us and we will extend to you the right hand of good fellowship. We will give you a guide that will show you the things of most interest, or if you want we will allow you to roam at will. We promise you that when you pay the visit you will not have wasted your time, but you will become more fully impressed with our importance and with the opportunity we offer the Bargain Buying Public to purchase staple merchandise and supplies at much lower than the usual asking prices.

Mistakes

If in your dealings with us you are confronted with a mistake we ask you to be patient. Remember your own faults. We have yet to meet "that perfect man." It's only human to make mistakes. If you want to show your manly nature then follow out the conduct that you would like were you the man who made the mistake and we the ones who had suffered. Write us the calm, cold facts in the case. Give us your order number, the date of your shipment, if you paid for the merchandise, the date of your remittance and do everything else that you can to make the transaction plain to us. Then tell us just what your grievance is in plain, every-day English language. Do not resort to any abusive language in telling us the facts; reserve that until later on. We promise you that if you have had any injustice done you it will be properly righted. That's the way we expect to hold your trade and that's the way we expect to increase our business. If after you have written us all the facts in the case and we still refuse to give you justice you will have sufficient time to launch on us an avalanche of abuse.

A General Synopsis of Our Business

Below we outline the various departments of our institution. For general convenience we have divided our business into 24 distinct departments, each one with an able General Manager and with a staff of competent assistants. The magnitude of our business is best shown in the description which follows:

Department No. 1

FURNITURE, RUGS, ETC. Our Furniture Department embraces everything in household goods—carpets, rugs, linoleums; office furniture—desks, chairs, filing cabinets, etc. Our display room occupies a space of 500x150 feet. Every single article carried in this department represents strictly brand new merchandise bought by us at SHERIFFS', RECEIVERS' and MANUFACTURERS' SALES.

Department No. 2

WIRE. Consists of all articles in the wire line distinguished from fencing, such as fence wire—smooth and barbed; telephone wire, and wire for the manufacture of various articles. All the wire is new; some of it is not strictly first class, but is sold for just what it is—no attempt at deception in any part of our business. See our wire pages in this catalog.

Department No. 3

BELTING, HOSE, ETC. Over $50,000 worth of high grade stock is constantly carried in this department. We are in shape to fill your order quickly. There will be no delay in getting any belting that you may be in a hurry for. This department embraces rubber and leather belts, packing and garden hose.

Department No. 4

HARDWARE. That means everything that is needed in building hardware, heavy hardware, etc. Our stock is absolutely complete and there is not an article manufactured in this line but what we can furnish.

Department No. 5

PLUMBING MATERIAL. We can furnish every single article needed in installing plumbing in any building. Everything in this department is absolutely brand new. We do not offer any second hand plumbing material for sale. We buy our goods for this department at various RECEIVERS' AND MANUFACTURERS' SALES.

Department No. 6

IRON PIPE. We conduct the largest business in the United States on overhauled pipe. Practically our entire stock of pipe has previously been used, but it is all put in first class condition. In this department we also carry a stock of brand new galvanized and black pipe for gas, water and other particular purposes. Our overhauled pipe is good enough for all general uses.

Department No. 7

STEEL AND IRON COVERING. Includes everything in corrugated and other irons and steel for general roofing, siding and ceiling purposes. We manufacture our own corrugated iron.

Department No. 8

MACHINERY. Most of the material carried in this line is overhauled and rebuilt rigs, but that doesn't mean that they have any less value than new rigs. A great many customers prefer thoroughly overhauled engines to new ones—they know what they can do; it's a question about the new ones. You are safe in writing us for anything in the machinery line.

Department No. 9

ROPE. A complete stock is carried in this department of wire rope and cable; also have manila, sisal and other ropes; also everything in rope clips, thimbles, etc. We can splice to length and can give immediate service on your requirements.

Department No. 10

MILLWORK. That means doors, windows and all necessary interior and exterior trim. This department carries as large a stock as any jobbing house, anywhere. All our orders for regular stock material can be promptly executed.

Department No. 11

SHAFTING, PULLEYS, ETC. A complete department in position to furnish every requirement in mill staples; that means pulleys, shafting, hangers, couplings, boxes, etc., etc. Our specialty is "EMERGENCY ORDERS." If you have a breakdown, send us the order; give us the privilege of filling in overhauled material, or new, if unable to furnish the former.

Department No. 12

BOILERS AND SMOKESTACKS. That means steam boilers. We have them from the smallest to the largest. Most of our stock in this department represents overhauled material. An accurate description is furnished and you are fully informed as to every detail of the articles we are offering for sale. We can furnish anything needed in Smokestacks.

Department No. 13

READY ROOFING. In this department we carry a complete stock of rubber surface and tarred roofing felts; also lining, such as red rosin and the like.

Department No. 14

ELECTRICAL. We include under this heading dynamos, generators, transformers, incandescent lamps, copper wire, telephones, switchboards and all sorts of electrical supplies. Our stock of these goods is constantly changing. A great percentage represents material secured by us in connection with some large dismantling contract. When we have it in stock we can save you from 30 to 75 per cent.

Department No. 15

SAFES AND VAULT DOORS. Most of our safes are new ones that have been built specially to order for us.

The majority of our vault doors are overhauled and secured from large dismantling companies. Our stock is necessarily changing, and in order to keep yourself posted, would advise that you write us for our Special Vault Door List from time to time.

Department No. 16

BRASS GOODS. Valves, bibbs, cocks, brass fittings and everything in connection with brass goods; that means for steam, water, gas and oil. We have both new and overhauled material in this department. Our stock is a very large one and you are safe in sending us your order. We can supply any requirement.

Department No. 17

HEATING APPARATUS. Includes Steam and Hot Water Heating Plants complete; embraces radiators, both new and overhauled; heaters, hot air furnaces, registers and everything in hot air heating; in fact, as complete a heating department as is to be found anywhere.

Department No. 18

STRUCTURAL IRON. Beams, channels, angles, rails, complete steel buildings; everything needed in structural material—iron and steel rods, cast iron columns, wrought iron columns; shapes to order. A special stock list issued from time to time.

Department No. 19

TANKS. Large storage tanks ranging in size from 4,000 to 100,000 gallons; in other words, tankage of all sorts. This list changes from time to time, and we would advise that you write us memorandum of your requirements. Undoubtedly we can furnish what you need, and at a saving.

Department No. 20

CEMENT BLOCK MACHINERY. This is a special new department recently installed. We will improve it from time to time. We propose to furnish you every single article needed in the manufacture of cement blocks and buildings. Additional literature besides that which you will find incorporated in this catalog will be issued shortly. Keep posted. Write us what you need.

Department No. 21

FITTINGS AND VALVES. Everything from the smallest ¼" coupling to a 24" gate valve. New fittings and valves as well as overhauled ones. One of the most interesting departments of our large plant. A constant change in this department necessitates new lists from time to time.

Department No. 22

LUMBER. That's a big enough word to tell all the facts. We can furnish anything needed in lumber, every bit of which is absolutely brand new; nothing second-hand or overhauled in this department.

Department No. 23

MISCELLANEOUS SUPPLIES. In our wonderful operations we secure a multitude of odds and ends—maybe a wagon or a piano, or perhaps some odd tools or something different than we have ever had before. We put it all together in one interesting department and issue special lists showing articles on hand.

Department No. 24

WIRE FENCING. This includes poultry fencing, hog fencing and cattle fencing. We can furnish at all times every size needed and for every purpose. All material in this department is new.

FREIGHT SHIPMENTS

FOR FREIGHT CLASSIFICATION and freight rates see pages 10 to 12. Heavy, bulky merchandise, such as machinery, furniture, hardware, etc., can be shipped most profitably by freight. When a shipment weighs 100 pounds or more, the railroad companies will charge only for the actual number of pounds, but never less than for 100 lbs.

IF YOU HAVE NO AGENT AT YOUR SHIPPING POINT, freight charges must be prepaid. If you do not know what the freight charge will amount to be sure and allow for same. If you send more than actual amount required we will immediately refund the difference. If you have an agent at your station it is not necessary to prepay charges as they can be paid to the agent on delivery of shipment.

BEFORE GIVING A RECEIPT TO THE RAILROAD COMPANY for articles covered by our freight receipt please **EXAMINE** every package carefully. In case any articles are missing or broken, report the same to the freight agent before removing goods. When you pay the freight, **REQUIRE THE AGENT TO NOTE THE EXTENT OF THE DAMAGE** or of the missing articles, on the face of the paid freight bill.

IF YOU BELIEVE THAT AN ERROR HAS BEEN MADE IN WEIGHT as shown in the expense bill, ask the agent to weigh the goods, and if it is found that the shipment is billed overweight he will correct the error.

IN CASE OF BREAKAGE, SHORTAGE OR OVERCHARGE make your claim on the Railroad Company **AT ONCE,** as you are the owner of the goods.

IF YOU WANT US TO MAKE CLAIM FOR YOU, mail us the **INVOICE AND ORIGINAL PAID FREIGHT BILL,** showing the shortage or breakage noted on such bill. (Get the agent to give you a duplicate of such freight bill, which retain, in case original gets lost in mail.)

IF YOU WANT TO ORDER OF US PARTS TO REPLACE DAMAGED GOODS, OR SHORTAGE, please state with your order all particulars, and from which shipment, giving date and number of our invoice.

WHEN WE AGREE TO PREPAY FREIGHT, AND SHIPMENT ARRIVES AT YOUR STATION WITH CHARGES TO COLLECT, in order to avoid storage charges while corresponding, pay freight charges and return the freight receipt showing the amount paid, and on receipt of same we will send you a check without delay for the amount paid, and assume the claim against the Railroad Company for double collection.

WHEN WE MAKE A SHIPMENT to a railroad station where there is no agent we do not guarantee safe delivery. From the fact that there is no agent at the station to receive the goods the railroad company will not assume any responsibility if after they are put on the platform they are lost or damaged, and we consequently cannot hold the Railroad for such loss or damage.

CUSTOMERS WHO ORDER GOODS shipped to a station where there is no agent must make careful arrangements for the care of the goods after they are put on the platform; otherwise, they are liable to be damaged or stolen. We would recommend that you have the goods shipped, if possible, to your nearest station where there is an agent, thus making the railroad company responsible for the goods until they are delivered to you.

FREIGHT RATES.

Below are rates to principal points in every state and territory.

HOW TO FIGURE FREIGHT CHARGES.

See page 11 for list of articles and their classes, then find the weight of the desired article, which is generally shown opposite its description in this catalogue, and if not shown you can estimate the weight. Find the rate in the table below under its class and multiply the rate by the weight. This will give you the freight charges sufficiently correct for your information.

IT IS NOT NECESSARY to write us for freight rates, as the following rates and instructions herewith will show what the rates are to different points. Take the nearest town to your own in the list below and the freight rate to your town will be almost the same if not exactly the same for 100 lbs.

THE RAILROADS have what is called a minimum freight charge which is the least amount of money for which they will haul a shipment.

In column 1 we show the minimum freight charge or rule for obtaining same.

NOTE A. The minimum charge is for 100 pounds, at the class to which shipment belongs, but not less than 75 cents.

NOTE B. The minimum charge is for 100 pounds, at the class to which shipment belongs, but not less than 50c.

NOTE C. The minimum charge is for 100 pounds, at the class to which shipment belongs, but not less than 25.

	Min. Charge	1	2	3	4	5	6
ALABAMA							
Anniston	Note B	1.33	1.17	1.00	.78	.65	.51
Bessemer		1.14	.99	.80	.62	.53	.40
Birmingham		1.14	.99	.80	.62	.53	.40
Decatur		1.14	.99	.80	.62	.53	.40
Florence		1.14	.99	.80	.62	.53	.40
Mobile		1.10	.90	.75	.58	.47	.41
Montgomery		1.33	1.17	1.00	.78	.68	.51
Pratt City		1.14	.99	.80	.62	.53	.40
Selma		1.33	1.17	1.00	.78	.68	.51
ARIZONA							
Freight Rates furnished with quotations.							
ARKANSAS							
Argenta	Note A	1.20	1.01	.77	.59	....	....
Fayetteville	Note A	1.30	1.11	.85	.62	....	....
Fort Smith	Note A	1.32	1.13	.89	.69	....	....
Hot Springs	Note A	1.55	1.32	1.05	.81	....	....
Little Rock	Note A	1.20	1.01	.77	.59	....	....
Newport	Note A	1.11	.91	.70	.58	....	....
Pine Bluff	Note A	1.20	1.01	.77	.59	....	....
CALIFORNIA							
Freight Rates furnished with quotations.							
COLORADO							
Canon City	1.54	2.45	2.00	1.54	1.21	....	....
Colorado Springs	1.25	2.05	1.65	1.25	.97	....	....
Cripple Creek	1.83	2.70	2.26	1.83	1.52	....	....
Denver	1.25	2.05	1.65	1.25	.97	....	....
Durango	2.30	3.50	2.95	2.30	1.77	....	....
Grand Junction	2.35	3.45	2.90	2.35	1.72	....	....
Hastings	1.25	2.05	1.65	1.25	.97	....	....
La Junta	1.25	2.05	1.65	1.25	.97	....	....
Leadville	2.05	3.05	2.55	2.05	1.62	....	....
Montrose	2.30	3.45	2.90	2.30	1.72	....	....
Rocky Ford	1.25	2.05	1.65	1.25	.97	....	....
Silverton	2.55	3.75	3.20	2.55	2.02	....	....
CONNECTICUT							
Freight Rates furnished with quotations.							
FLORIDA							
Gainesville	Note A	1.78	1.56	1.38	1.09	1.01	.80
Jacksonville	Note A	1.30	1.10	.97	.85	.71	.56
Key West	Note A	1.88	1.63	1.45	1.21	1.01	.84
Miami	*	2.41	2.07	1.77	1.58	1.37	1.17
Oakland	*	2.02	1.75	1.56	1.34	1.12	.92
Orlando	Note A	2.00	1.73	1.56	1.32	1.10	.91
Palatka	*	1.40	1.19	1.05	.92	.77	.61
Pensacola	1.10	1.10	.90	.75	.58	.47	.41
Saint Augustine	*	1.58	1.35	1.20	1.05	.87	.68
Tampa	Note A	1.60	1.53	1.31	1.17	.99	.83
GEORGIA							
Albany	Note C	1.58	1.37	1.18	.93	.78	.62
Atlanta	Note C	1.33	1.17	1.00	.78	.65	.51
Augusta	Note C	1.38	1.20	1.03	.80	.67	.53
Cartersville	Note C	1.33	1.17	1.00	.78	.65	.51
Columbus	Note C	1.38	1.20	1.03	.80	.67	.53
Cordele	Note C	1.57	1.38	1.18	.93	.78	.62
Covington	Note C	1.60	1.41	1.22	.98	.81	.63
Dalton	Note C	1.32	1.17	1.00	.78	.65	.51
Elberton	Note C	1.51	1.33	1.08	.82	.68	.60
Gainesville	Note C	1.47	1.35	1.06	.80	.66	.58
La Grange	Note C	1.69	1.50	1.29	1.03	.85	.66
Macon	Note C	1.38	1.20	1.03	.80	.67	.53
Marietta	Note C	1.45	1.20	1.00	.80	.73	.60
Rome	Note C	1.33	1.17	1.00	.78	.65	.51
Savannah	Note C	1.30	1.10	.97	.85	.71	.56
Washington	Note C	1.51	1.33	1.08	.83	.68	.60

	Min. Charge	1	2	3	4	5	6
IDAHO							
Boise	2.45	3.30	2.80	2.45	2.02	....	....
Coeur D'Alene	2.85	3.60	3.10	2.60	2.10	....	....
Idaho Falls	1.98	2.85	2.40	1.98	1.60	....	....
Lewiston	2.85	3.60	3.10	2.60	2.10	....	....
Moscow	2.85	3.60	3.10	2.60	2.10	....	....
Pocatello	1.98	2.85	2.40	1.98	1.60	....	....
Wallace	2.85	3.60	3.10	2.60	2.10	....	....
ILLINOIS							
Alton	Third-class rate, but not less than 25.	.42	.34	.27	.21	....	....
Belleville		.45	.37	.29	.23	....	....
Bloomington		.35	.27	.21	.17	....	....
Cairo		.47	.38	.31	.24	....	....
Canton		.38	.31	.24	.19	....	....
Clinton		.36	.29	.22	.19	....	....
Danville		.34	.27	.21	.17	....	....
Galesburg		.37	.30	.23	.19	....	....
Jacksonville		.40	.32	.25	.20	....	....
Joliet		.21	.17	.14	.11	....	....
Kankakee		.24	.20	.17	.12	....	....
Kewanee		.35	.28	.22	.17	....	....
La Salle		.31	.25	.20	.15	....	....
Lemont		.17	.15	.12	.09	....	....
Litchfield		.41	.33	.26	.21	....	....
Mattoon		.38	.30	.23	.19	....	....
Moline		.37	.30	.23	.19	....	....
Murphysboro		.45	.37	.29	.23	....	....
Ottawa		.29	.24	.19	.14	....	....
Peoria		.37	.29	.22	.18	....	....
Quincy		.42	.35	.27	.22	....	....
Rockford		.29	.24	.20	.14	....	....
Rock Island		.38	.30	.23	.19	....	....
Springfield		.38	.31	.24	.19	....	....
Streator		.30	.24	.20	.15	....	....
INDIANA							
Anderson	.32	.32	.27	.22	.14	.12	....
Columbus	.36	.36	.31	.23	.16	.15	....
Crawfordsville	.30	.30	.25	.20	.14	.11	....
Decatur	.29	.29	.25	.20	.14	.11	....
Evansville	.40	.40	.34	.25	.17	.15	....
Ft. Wayne	.29	.29	.25	.20	.14	.11	....
Frankfort	.30	.30	.25	.20	.14	.11	....
Hartford City	.32	.32	.27	.22	.14	.12	....
Indianapolis	.32	.32	.27	.22	.14	.12	....
Jeffersonville	.40	.40	.34	.25	.17	.12	....
Lafayette	.30	.30	.25	.20	.13	.10	....
Laporte	.25	.17	.15	.14	.10	.08	....
Logansport	.26	.26	.23	.20	.13	.10	....
Madison	.40	.40	.34	.25	.17	.15	....
New Albany	.40	.40	.34	.25	.17	.15	....
Peru	.28	.28	.24	.20	.13	.10	....
Shelbyville	.36	.36	.31	.23	.16	.13	....
South Bend	.25	.22	.20	.17	.12	.09	....
Terre Haute	.32	.32	.27	.22	.14	.12	....
IOWA							
Boone	Note C	.69	.54	.41	.29	....	....
Burlington		.40	.32	.25	.20	....	....
Cedar Falls		.60	.50	.40	.25	....	....
Cedar Rapids		.58	.47	.35	.24	....	....
*Clinton		.38	.30	.23	.19	....	....
Council Bluffs		.80	.65	.45	.32	....	....
Davenport		.38	.30	.23	.19	....	....
Des Moines		.68	.50	.40	.29	....	....
*Dubuque		.38	.31	.24	.19	....	....
*Fort Madison		.41	.33	.26	.21	....	....

	Min. Charge	1	2	3	4	5	6
IOWA—Con.							
Iowa City	Note C	.58	.44	.35	.24	....	....
*Keokuk		.42	.33	.26	.21	....	....
Marshalltown		.63	.50	.40	.26	....	....
*Muscatine		.39	.31	.24	.19	....	....
Oskaloosa		.63	.50	.40	.26	....	....
Ottumwa		.61	.50	.36	.26	....	....
Iowa to Cities marked * Illinois classification to other cities western class							
KANSAS							
Atchison	3rd Class	.80	.65	.45	.32	....	....
Coffeyville		1.21	1.03	.80	.57	....	....
Fort Scott		.94	.81	.55	.37	....	....
Independence		1.21	1.03	.80	.57	....	....
Junction City		1.30	1.10	.82	.60	....	....
Kansas City		.80	.65	.45	.32	....	....
Leavenworth		.80	.65	.45	.32	....	....
Pittsburg		.94	.84	.60	.45	....	....
Topeka		1.09	.89	.64	.47	....	....
Wichita		1.40	1.18	.91	.69	....	....
KENTUCKY							
*Ashland	.45	.45	.39	.30	.21	.18	....
Bowling Green	Note B	.96	.82	.68	.55	.48	.43
Hopkinsville	Note B	.80	.65	.55	.46	.41	.35
*Louisville	.41	.41	.35	.26	18	.16	....
*Newport	.65	.43	.37	.28	.20	....	....
Paducah	.50	.50	.42	.35	.27	.22	.20
* **LOUISIANA**							
Baton Rouge	1.10	1.10	.90	.75	.58	.47	.41
Donaldsonville	1.10	1.10	.90	.75	.58	.47	.41
Lake Charles	Note B	1.60	1.34	1.10	93	....	....
Monroe	Note B	1.45	1.24	1.07	88	....	....
New Orleans	1.10	1.10	.90	.75	.58	.47	.41
*Louisiana towns with four classes are governed by Western classification.							
Louisiana towns with six classes are governed by Southern classification.							
MAINE							
Other Freight Rates furnished with quotations.							
MASSACHUSETTS							
Freight Rates furnished with quotations.							
***MICHIGAN**	Charge	1	2	3	4	5	6
Adrian	.35	.35	.30	.23	.15	.13	....
Albion	.33	.33	.28½	.22	.15	.12	....
Ann Arbor	.37	.37	.32	.24	.16	.13	....
Battle Creek	.32	.32	.27	.22	.14	.12	....
Benton Harbor	.25	.22	.20	.17	.12	.09	....
Cadillac	.47	.47	.41	.31	.23	.18	....
Detroit	.37	.37	.32	.24	.16	.13	....
Escanaba	.40	.60	.50	.40	.28	....	....
Grand Rapids	.33	.33	.29	.22	.15	.12	....
Holland	.33	.33	.29	.22	.15	.12	....
Lansing	.36	.36	.31	.23	.16	.13	....
Ludington	.47	.47	.41	.31	.23	.18	....
Manistee	.47	.47	.41	.31	.23	.18	....
Monroe	.37	.37	.32	.24	.16	.13	....
Port Huron	.37	.37	.32	.24	.16	.13	....
Saginaw	.37	.37	.32	.24	.16	.13	....
Sault Sainte Marie	.60	.60	.50	.37	.28	.22	....
*Michigan towns with four classes—rates are governed by Western classification.							
Michigan towns with five classes—rates are governed by Eastern classification.							

MINNESOTA	Min. Charge	1	2	3	4	5	6
Albert Lea	Is the third class rate	.60	.50	.40	.25		
Cloquet		.65	.55	.44	.28		
Duluth		.65	.55	.44	.28		
Faribault		.60	.50	.40	.25		
Grand Rapids		.98	.82	.66	.44		
Hutchinson		.62	.53	.45	.30		
Mankato		.65	.55	.43	.27		
Minneapolis		.60	.50	.40	.25		
Moorhead		1.14	.95	.76	.53		
Northfield		.60	.50	.40	.25		
Rochester		.57	.47	.37	.24		
Saint Paul		.60	.50	.40	.25		
Winona		.50	.42	.33	.23		
MISSISSIPPI							
Aberdeen	Note B	1.25	1.02	.82	.70	.57	.48
Brookhaven	Note B	1.37	1.11	.93	.77	.64	.56
Greenville	1.10	1.10	.90	.75	.58	.47	.41
Greenwood	Note B	1.16	.95	.78	.65	.55	.49
Gulfport	1.10	1.10	.90	.75	.58	.47	.41
Jackson	1.18	1.18	.99	.80	.67	.56	.49
Laurel	Note B	1.38	1.16	.95	.79	.65	.55
Macon	Note B	1.25	1.02	.82	.70	.57	.51
Natchez	1.10	1.10	.90	.75	.58	.47	.41
Port Gibson	Note B	1.49	1.24	1.03	.82	.68	.59
Tupelo	Note B	1.13	.94	.78	.66	.53	.45
Vicksburg	1.10	1.10	.90	.75	.58	.47	.41
Winona	Note B	1.25	1.02	.82	.70	.57	.48
Yazoo	Note B	1.16	.95	.78	.65	.55	.49
MISSOURI							
Aurora	.55	.90	.77	.55	.39		
Carthage	.60	.94	.84	.60	.45		
Chillicothe	.45	.80	.65	.45	.32		
Clinton	.50	.82	.72	.50	.37		
Columbia	.37	.63	.49	.37	.26		
Independence	.45	.80	.65	.45	.32		
Jefferson City	.42	.71	.58	.42	.29		
Joplin	.60	.94	.84	.60	.45		
Kansas City	.45	.80	.65	.45	.32		
Kirksville	.40	.67	.55	.40	.27		
Lexington	.45	.80	.65	.45	.32		
Macon	.40	.67	.55	.40	.27		
Maryville	.45	.80	.65	.45	.32		
Mexico	.37	.62	.49	.37	.26		
Moberly	.37	.63	.49	.37	.26		
Poplar Bluff	.55	.77	.66	.55	.45		
Saint Louis	.28	.43	.35	.28	.22		
Sedalia	.50	.75	.61	.42	.29		
Springfield		.82	.72	.50	.37		
Trenton	.45	.80	.65	.45	.32		
MONTANA							
Butte	Note A	2.85	2.40	1.98	1.60		
Great Falls	Note A	2.70	2.29	1.87	1.51		
Helena	Note A	2.85	2.40	1.98	1.60		
Livingston	Note A	2.75	2.33	1.91	1.54		
Missoula	Note A	2.96	2.51	2.05	1.67		
Red Lodge	Note A	2.65	2.24	1.84	1.48		
Walkerville	Note A	2.85	2.40	1.98	1.60		
NEBRASKA							
Columbus	Is the third-class rate	1.15	.95	.72	.53		
Falls City		.80	.65	.45	.32		
Fremont		.85	.70	.49	.36		
Grand Island		1.31	1.11	.83	.62		
Lincoln		.85	.70	.49	.36		
Nebraska City		.80	.65	.45	.32		
Norfolk		1.15	.95	.72	.53		
North Platte		1.58	1.36	1.10	.86		
Omaha		.80	.65	.45	.32		
Plattsmouth		.80	.65	.45	.32		
Tecumseh		.85	.70	.49	.36		
NEVADA							
Carson City	3.35	4.54	3.98	3.47	3.02		
Elko	3.10	4.73	3.10	3.48	2.97		
Goldfield	2.22	5.55	4.95	4.15	3.38		
Reno	3.10	4.29	3.73	3.22	2.77		
Virginia City	3.35	4.69	4.10	3.52	3.07		
NEW HAMPSHIRE							
Freight rates furnished with quotations.							
NEW JERSEY							
NEW MEXICO							
Freight Rates furnished with quotations.							
NEW YORK							
Albany	.72	.72	.63	.48	.34	.29	
Amsterdam	.72	.72	.63	.48	.34	.29	
Auburn	.60	.60	.52	.40	.28	.24	
Brooklyn	.75	.75	.65	.50	.35	.30	
Dunkirk	.45	.45	.39	.30	.21	.18	
Hornellsville	.56	.56	.48	.37	.26	.22	
Ithaca	.60	.60	.52	.40	.28	.24	
Jamestown	.45	.45	.39	.30	.21	.18	
Kingston	.75	.75	.65	.50	.35	.30	
New York	.75	.75	.65	.50	.35	.30	
Niagara Falls	.45	.45	.39	.30	.21	.18	
Oswego	.60	.60	.52	.40	.28	.24	
Poughkeepsie	.75	.75	.65	.50	.35	.30	
Rochester	.56	.56	.48	.37	.26	.22	
Rome	.68	.68	.59	.45	.32	.27	
Schenectady	.72	.72	.63	.48	.34	.29	
Syracuse	.60	.60	.52	.40	.28	.24	
Troy	.72	.72	.63	.48	.34	.29	
Utica	.68	.68	.59	.45	.32	.27	
NORTH CAROLINA							
Asheville	Note C	1.34	1.18	.99	.80	.68	.56
Charlotte	Note C	1.35	1.16	.92	.68	.58	.45
Durham	Note C	1.28	1.09	.86	.62	.53	.41
Fayetteville	Note C	1.35	1.16	.92	.68	.56	.40
Monroe	Note C	1.35	1.16	.92	.68	.58	.45

NORTH CAROLINA	Min. Charge	1	2	3	4	5	6
Newbern	Note C	1.13	.94	.74	.56	.45	.35
Oxford	Note C	1.28	1.06	.86	.62	.53	.41
Raleigh	Note C	1.28	1.09	.86	.62	.53	.41
Rocky Mount	Note C	1.28	1.09	.86	.62	.53	.41
Washington	Note C	1.12	.93	.74	.55	.45	.35
Wilmington	Note C	1.17	.98	.75	.56	.45	.35
NORTH DAKOTA							
Bismark	Is for 100 pounds Third Class Rate	1.58	1.32	1.05	.74		
Devils Lake		1.50	1.27	1.01	.72		
Dickinson		1.87	1.58	1.28	.96		
Fargo		1.14	.95	.76	.52		
Grand Forks		1.21	1.01	.81	.56		
Jamestown		1.37	1.14	.91	.63		
Lisbon		1.25	1.04	.83	.58		
Wahpeton		1.09	91	.73	.50		
Williston		1.99	1.66	1.36	1.01		
OHIO							
Akron	.41	.41	.35	.26	.18	.15	
Ashtabula	.44	.44	.38	.29	.19	.17	
Cambridge	.44	.44	.38	.29	.19	.17	
Canton	.41	.41	.35	.26	.18	.15	
Cincinnati	.40	.40	.34	.25	.17	.15	
Cleveland	.41	.41	.35	.26	.18	.15	
Columbus	.41	.41	.35	.26	.18	.15	
Dayton	.40	.40	.34	.25	.17	.15	
Delaware	.41	.41	.35	.26	.18	.15	
East Liverpool	.45	.45	.39	.30	.21	.18	
Hamilton	.40	.40	.34	.25	.17	.15	
Lancaster	.44	.44	.38	.29	.19	.17	
Mansfield	.40	.40	.34	.25	.17	.15	
Marietta	.45	.45	.39	.30	.21	.18	
Massillon	.41	.41	.35	.26	.18	.15	
Middletown	.40	.40	.34	.25	.17	.15	
Portsmouth	.45	.45	.39	.30	.21	.18	
Sandusky	.40	.40	.34	.26	.18	.15	
Springfield	.40	.40	.34	.26	.18	.15	
Toledo	.37	.37	.32	.24	.16	.13	
Zanesville	.44	.44	.38	.29	.19	.17	
OKLAHOMA							
Ardmore	Note C	1.60	1.37	1.15	1.01		
Duncan	Note C	1.57	1.34	1.12	.96		
Durant	Note C	1.60	1.37	1.15	1.01		
El Reno	Note C	1.50	1.29	1.07	.87		
Enid	Note C	1.50	1.29	1.03	.87		
Fort Sill	Note C	1.60	1.37	1.15	1.01		
Guthrie	Note C	1.50	1.29	1.07	.87		
Hartshorne	Note C	1.40	1.20	.95	.74		
Hobart	Note C	1.60	1.37	1.15	1.01		
Kingfisher	Note C	1.50	1.29	1.07	.87		
Lawton	Note C	1.60	1.37	1.15	1.01		
McAlester	Note C	1.40	1.20	.95	.74		
Muskogee	Note C	1.35	1.20	.90	.69		
Norman	Note C	1.50	1.29	1.07	.87		
Oklahoma	Note C	1.50	1.29	1.07	.87		
Okmulgee	Note C	1.40	1.20	.95	.74		
Pawhuska	Note C	1.33	1.14	.88	.67		
Ponca	Note C	1.46	1.24	1.00	.78		
Purcell	Note C	1.50	1.29	1.07	.87		
Sapulpa	Note C	1.37	1.20	.92	.73		
Shawnee	Note C	1.50	1.29	1.07	.87		
Tulsa	Note C	1.35	1.20	.90	.70		
OREGON							
Freight Rates furnished with quotations.							
PENNSYLVANIA							
Allegheny	.45	.45	.39	.30	.21	.18	
Allentown	.73	.73	.63	.48	.33	.28	
Altoona	.72	.72	.62	.47	.32	.27	
Bradford	.56	.56	.48	.37	.26	.22	
Chester	.73	.73	.63	.48	.33	.28	
Columbia	.73	.73	.63	.48	.33	.28	
Duquesne	.45	.45	.39	.30	.21	.18	
Erie	.45	.45	.39	.30	.21	.18	
Harrisburg	.72	.72	.62	.47	.32	.27	
Hazelton	.73	.73	.63	.48	.33	.28	
Johnstown	.73	.73	.63	.48	.33	.28	
Lancaster	.73	.73	.63	.48	.33	.28	
McKeesport	.45	.45	.39	.30	.21	.18	
New Castle	.44	.44	.38	.29	.19	.17	
Philadelphia	.73	.73	.63	.48	.33	.28	
Pittsburg	.45	.45	.39	.30	.21	.18	
Pottstown	.73	.73	.63	.48	.33	.28	
Reading	.73	.73	.63	.48	.33	.28	
Scranton	.73	.73	.63	.48	.33	.28	
Shamokin	.73	.73	.63	.48	.33	.28	
Sharon	.44	.44	.38	.29	.19	.17	
Shenandoah	.73	.73	.63	.48	.33	.28	
South Bethlehem	.73	.73	.63	.48	.33	.28	
Steelton	.72	.72	.62	.47	.32	.27	
Uniontown	.50	.50	.43	.33	.23	.20	
Wilkes Barre	.73	.73	.63	.48	.33	.28	
York	.72	.72	.62	.47	.32	.27	
RHODE ISLAND							
Freight Rates furnished with quotations.							
SOUTH DAKOTA							
Aberdeen	100 pounds at First-class Rate, but not less than .25	1.14	.95	.67	.50		
Deadwood		2.09	1.77	1.42	1.13		
Madison		1.02	.85	.55	.42		
Mitchell		1.05	.94	.67	.47		
Pierre		1.22	1.04	.80	.60		
Rapid City		2.00	1.72	1.37	1.09		
Redfield		1.14	.95	.67	.50		
Sioux Falls		.83	.68	.47	.34		
Watertown		.88	.75	.58	.40		
Wessington Springs		1.16	.96	.68	.48		
Yankton		.91	.73	.51	.37		

TENNESSEE	Min. Charge	1	2	3	4	5	6
*Bristol	.84	.84	.72	.55	.39	.33	
Chattanooga	1.11	1.11	.95	.79	.62	.53	.40
Columbia	Note B	.98	.83	.68	.55	.47	.40
Covington	Note B	1.02	.85	.69	.63	.50	.45
Fayetteville	Note B	1.23	1.08	.90	.73	.64	.55
Franklin	Note B	.87	.76	.62	.49	.41	.34
Gallatin	Note B	.91	.78	.65	.53	.46	.40
Humboldt	Note B	.95	.78	.65	.53	.40	.35
Jackson	Note B	1.03	.85	.70	.57	.42	.39
Knoxville	1.11	1.11	.95	.79	.62	.53	.40
Memphis	.85	.85	.65	.55	.43	.37	.31
Morristown	1.34	1.34	1.18	.99	.80	.68	.54
Nashville	.73	.73	.63	.50	.38	.31	.25
Pulaski	1.19	1.18	1.02	.82	.70	.61	.53
Shelbyville	Note B	1.08	.93	.77	.63	.55	.48
Trenton	Note B	.95	.80	.66	.54	.39	.36
Tullahoma	Note B	1.11	.96	.80	.66	.57	.49
Union City	Note B	.83	.68	.55	.44	.35	.30
Winchester	Note B	1.15	1.00	.84	.69	.59	.50
*Official Classification.							
TEXAS							
Abilene	Note C	1.67	1.45	1.24	1.12		
Austin	Note C	1.67	1.45	1.24	1.12		
Beaumont	Note C	1.67	1.45	1.24	1.12		
Belton	Note C	1.67	1.45	1.24	1.12		
Brownsville	Note C	1.98	1.75	1.58	1.47		
Cleburne	Note C	1.67	1.45	1.24	1.12		
Dallas	Note C	1.67	1.45	1.24	1.12		
Denison	Note C	1.67	1.45	1.24	1.12		
Elpaso	Note C	1.79	1.58	1.42	1.32		
Fort Worth	Note C	1.67	1.45	1.24	1.12		
Gainesville	Note C	1.67	1.45	1.24	1.12		
Galveston	Note C	1.67	1.45	1.24	1.12		
Houston	Note C	1.67	1.45	1.24	1.12		
Laredo	Note C	1.79	1.58	1.42	1.32		
Orange	Note C	1.67	1.45	1.24	1.12		
Palestine	Note C	1.67	1.45	1.24	1.12		
Paris	Note C	1.67	1.45	1.24	1.12		
Port Arthur	Note C	1.67	1.45	1.24	1.12		
San Angelo	Note C	1.67	1.45	1.24	1.12		
San Antonio	Note C	1.67	1.45	1.24	1.12		
Texarkana	Note C	1.47	1.31	1.16	.96		
Waco	Note C	1.67	1.45	1.24	1.12		
Weatherford	Note C	1.67	1.45	1.24	1.12		
Wichita Falls	Note C	1.67	1.45	1.24	1.12		
UTAH							
Eureka	2.41	3.33	2.83	2.35	1.92		
Logan	1.98	2.85	2.40	1.98	1.60		
Mt. Pleasant	2.23	3.10	2.61	2.16	1.75		
Ogden	1.98	2.85	2.40	1.98	1.60		
Park City	1.98	2.85	2.40	1.98	1.60		
Provo	1.98	2.85	2.40	1.98	1.60		
Salt Lake	1.98	2.85	2.40	1.98	1.60		
VERMONT							
Freight rates furnished with quotations.							
VIRGINIA							
Alexandria	.72	.72	.62	.47	.32	.27	
Berkley	.72	.72	.62	.47	.32	.27	
Covington	.72	.72	.62	.47	.32	.27	
Fredericksburg	.72	.72	.62	.47	.32	.27	
Harrisonburg	.72	.72	.62	.47	.32	.27	
Lynchburg	.72	.72	.62	.47	.32	.27	
Newport News	.72	.72	.62	.47	.32	.27	
Norfolk	.72	.72	.62	.47	.32	.27	
Petersburg	.72	.72	.62	.47	.32	.27	
Portsmouth	.72	.72	.62	.47	.32	.27	
Richmond	.72	.72	.62	.47	.32	.27	
Roanoake	.72	.72	.62	.47	.32	.27	
WASHINGTON							
Freight rates furnished with quotations.							
WEST VIRGINIA							
Bluefield	.84	.84	.72	.55	.39	.33	
Charleston	.45	.45	.39	.30	.21	.18	
Charlestown	.72	.72	.62	.47	.32	.27	
Clarksburg	.50	.50	.43	.33	.23	.20	
Fairmont	.50	.50	.43	.33	.23	.20	
Grafton	.50	.50	.43	.33	.23	.20	
Huntington	.45	.45	.39	.30	.21	.18	
Martinsburg	.72	.72	.62	.47	.32	.27	
Morgantown	.50	.50	.43	.33	.23	.20	
Parkersburg	.45	.45	.39	.30	.21	.18	
Wheeling	.45	.45	.39	.30	.21	.18	
WISCONSIN							
Appleton	100 pounds at First-class Rate, but not less than .25	.43	.36	.29	.20		
Ashland		.65	.55	.44	.28		
Beaver Dam		.40	.32	.27	.20		
Beloit		.37	.30	.24	.18		
Eau Claire		.60	.50	.40	.25		
Fond du Lac		.40	.33	.28	.20		
Grand Rapids		.50	.42	.33	.23		
Green Bay		.43	.36	.29	.22		
Janesville		.37	.30	.24	.18		
Kenosha		.20	.15	.12	.10		
La Crosse		.50	.42	.33	.23		
Madison		.39	.34	.26	.18		
Manitowoc		.40	.36	.29	.20		
Menasha		.43	.36	.29	.20		
Menomonie		.60	.50	.40	.25		
Milwaukee		.25	.20	.15	.12		
Neenah		.43	.36	.29	.20		
Oshkosh		.43	.36	.29	.20		
Portage		.50	.40	.30	.20		
Racine		.25	.20	.15	.12		
Sheboygan		.35	.30	.27	.19		
Superior		.65	.55	.44	.28		
Waukesha		.35	.25	.20	.15		
WYOMING							
Freight Rates furnished with quotations.							

Freight Classification

1 stands for First Class. **4 stands for Fourth Class.**
2 stands for Second Class. **5 stands for Fifth Class.**
3 stands for Third Class. **6 stands for Sixth Class.**

RULE 25. Articles classified R25 take 15% below the third class rate.
RULE 26. Articles classified R26 take 20% below the third class rate.

THE RAILROADS CHARGE FOR FREIGHT according to its classification. For example: Stoves take 3d class rate. By referring to pages 9 and 10 you will find the 3rd class rate to the nearest town in your state. Multiply the weight of the article (which you can get from our catalogue or estimate pretty closely) by the rate, and you will be able to figure the freight charges almost to a cent. If the following list does not contain the article you want, you can, as a rule, use the rate on some article of a similar nature.

THE CLASSIFICATION ON SOME ARTICLES is different to different sections of the country. For example: Hardware takes 2nd class rate to the western and southern states, and 3rd class rate to the eastern states. Building paper takes 3rd class rate to the western states, R26 to the eastern states and 5th class to the southern states.

REMEMBER—We always pack and ship our goods in a manner that secures for you the LOWEST FREIGHT CHARGES.

1½ stands for 1½ times First Class. **2½ stands for 2½ times First Class.**
1½ stands for 1½ times First Class. **3Tl stands for 3 times First Class.**
D1 stands for 2 times First Class. **4Tl stands for 4 times First Class.**

WEST. The railroads running west, northwest and Southwest from Chicago, use the western classification. Use the classification in column marked "West" if you live i any of the following states: Arizona, Arkansas, California, Colorado, Idaho, Illinois, Indian Territory, Iowa, Kansas, Louisiana, Minnesota, Missouri, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, Wisconsin, Wyoming.

EAST. The railroads running east and northeast from Chicago, use the eastern classification. Use the classification in column marked "East" if you live in any of the following states: Connecticut, Delaware, District of Columbia, Indiana, Maryland, Maine, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia.

SOUTH. The railroads running south and southeast from Chicago, use the southern classification. Use the classification in column marked "South" if you live in any of the following states: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee.

A				
Air Compressors	1	3	2	2
Angle Iron	4	6	4	4
Anvils	4	5	4	4
Art Squares	1	1	1	1
Asbestos Covering	3	3	3	4
Awnings	1	1	1	1
Axe Handles:				
In bundles	2	3	3	4
In boxes or crates	4	.....	.....	.....
Axes	See hdwe	3	hdwe	hdwe
B				
Babbitt Metal	3	4	3	4
Band Iron	4	6	4	4
Barbed Wire	4	6	4	4
Barn Door Hangers	3	4	R26	3
Barn Rails	3	4	R26	4
Barn Sash:				
Glazed	4	4	3	4
Unglazed	3	3	1	4
Bars, Steel	4	6	4	4
Basins:				
Iron	3	3	3	3
Earthenware	2	4	2	4
Basin Bowls:				
Iron	3	3	3	3
Earthenware	2	4	2	4
Bath Tubs	1	1	1	1
Beaded Ceiling	4	6	4	5
Beams, Iron	4	6	4	4
Beds:				
Brass	1	2	1	1
Iron or Wood	2	2	2	2
Bellows	1	1	1	1
Belting	1	2	2	2
Black Pipe	4	6	4	4
Blankets	1	1	1	1
Blast Furnaces	1	1	1	1
Boilers	.....	3	2	3
10 feet and under	3	.....	.....	.....
Over 10 ft. and under 30 feet	1	.....	.....	.....
30 feet and over	1½	.....	.....	.....
Boilers, Range	3	3	3	3
Bolts, Iron	4	5	4	4
Book Cases	1½	1	1½	1½
Brass Pipe Fittings	2	2	3	3
Brick Siding	4	6	4	4
Brussel Rugs	1	1	1	1
Buckets, Steel, nested, boxed	3	4	3	3
Building Paper	3	5	R26	4
Bureaus	1	2	1	1
C				
Cable Carrier	2	3	R25	2
Cable Wire, see Rope				
Carpets	.....	.....	.....	.....
Car Trucks	1	1	1½	1
Car Wheels	4	6	4	4
Casing Lap, welded	4	6	4	4
Cast Iron Fittings	4	6	4	4
Cement Asbestos	3	5	R26	4
Centrifugal Pumps	1	3	2	3
Chains, Iron:				
Loose	2	5	.....	.....
In boxes, barrels or casks	4	.....	4	4
Less than ⅝ inch, loose	.....	.....	3	3
Over ⅝ inch, loose	.....	.....	4	4
Chairs:				
Opera	2	1	1	2
Folding	2	1	1	2
Cane Seats S. U	D 1	1	1¼	D 1
Upholstered, S. U.	D 1	1½	1½	D 1
Wood or Leather, S. U	D 1	1	1½	D 1
Chiffoniers		1	2	1	1
China Closets, S.U	D 1	1½	1½	1½
Channels	4	6	4	4
Closet Bowls:				
Iron	3	3	3	3
Earthenware	2	4	2	4
Closet Ranges	2	3	.....	.....
Loose	.....	.....	1	2
In crates or boxes	.....	.....	3	3
Nested	3	.....	.....	.....
Closet Seats	3	.....	2	3
Loose	.....	1	.....	.....
Packed	.....	3	.....	.....
Closet Tanks:				
Iron, loose	2	1	1	2
Nested	3	3	2	3
Clutch Pulleys	1	3	1	1
Columns, Iron	4	6	4	4
Commodes	1	1	1	1
Condensers	3	3	1	2
Conductor Hooks	4	4	3	4
Conductor Pipe	1	D 1	1½	1½
Crated or boxed	2	2	2	2
Conductor Pipe Shoes	1	D 1	1½	1½
Crated or boxed	2	2	2	2
Connections, Lead	2	4	3	2
Crated	3	.....	4	4
Boxed	4	5	4	4
Connections, Siamese	4	6	4	4
Cord, Sash	1	3	3	3
Corrugated Iron	4	6	4	5
Corrugated Sheets	4	6	4	5
Cots, Folding	.....	.....	.....	.....
Couches:				
Upholstered, N. O. S	D 1	1½	D 1	D 1
Upholstered without backs or with back taken off or laid down flat	1½	1	1½	1
Upholstered backs and legs detached or without backs and legs	1	.....	1	.....
Countershafts	1	3	1	1
Cranes	1	3	2	2
Cross Arms	4	6	4	4
Crow Bars	4	6	4	4
Culverts, Steel:				
Inside diam. 24 in. or less, 16 gauge or thicker	2	1	.....	2
Inside diam. exceeding 24 in., and not exceeding 48 in., 16 gauge or thicker	1	.....	.....	.....
Inside diam. over 48 inches	D 1	.....	.....	.....
Thinner than 16 gauge, any diam	D 1	.....	.....	.....
Nested	.....	2	.....	.....
Riveted	.....	.....	2	.....
Cast or wrought	.....	.....	4	.....
Cupboards	1½	1½	1½	1½
Cut-off Saws	1	3	1	1
Cutting Machines	1	3	1	1
Cylinders, Pump	3	3	3	2
D				
Desks, boxed wrap'd or crated	1	2	1½	1½
Deck Beams	4	6	4	4
Diamond Drill	1	3	1	1
Dining Room Tables K. D	3	2	2	2
Dishes	1	2	R26	4
Doors, Fire	4	4	3	3
Door Screens, see Screen Doors.				
Doors, Common	4	4	3	4
Doors, Common, Glazed	3	3	1	4
Dressers	1	2	1	1
Drag Saws	2	3	1	2
Drills	2	2	3	2
E				
Eave Trough and Fittings, N.O.S	1	1	2	3
Nested, bxd or crtd	2	2	3	.....
Edgers, Gang	1	3	1	1
Electrical Apparatus	1	1	1	1
Emery Wheels, bxd	3	3	3	2
Emery Grinders	1	3	1	1
Enamel Tubs	1	1	1	1
Engines, see Machy.				
Extinguisher, Fire	1	1	1	1
F				
Fans, Exhaust	1	2	1	2
Feed Cookers	3	3	1	3
Feed Grinders	1	3	1	1
Felt Pipe Covering	2	3	2	3
Fencing, Wire	3	5	3	3
Fence Posts, Steel	4	5	4	4
Fencing, Mesh	3	5	3	3
Fencing, Steel Picket	3	5	3	3
Flues, Boiler	4	6	4	4
Folding Bath Tubs	1	1	1	1
Force Pumps:				
Hand	3	3	R25	3
Power	1	3	2	3
Forges, Portable, crated or boxed	2	2	2	2
Friction Clutch Pulleys	1	3	1	1
Frost Proof Closets	2	4	2	4
Furnaces	3	.....	.....	3
S. U	.....	.....	1	1
K. D	.....	.....	3	3
G				
Galvo Roofing	3	5	R26	4
Gas Burners and Tips, boxed	.....	.....	3	3
Gasoline Lamps, bxd	1	1	1	1
Gasoline Torches	1½	1	1	2

FREIGHT CLASSIFICATION-Cont.

Gasoline and Gas Heaters, boxed	1½	2	1	2
Gears	1	3	1	1
Generators	1	3	1	1
Gong Bells	1	1	1	2
Governors	1	3	2	2
Grates, Fireplace	3	1	.....	.....
Packed	.....	3	3	3
Grain Spouts	1	1	2	3
Gutters, Roof, see Eave Troughs.				
H				
Hack Saws	1½	1½	1½	1½
Hall Trees:				
K. D., bxd or crtd	2	1	1	3
S. U., bxd or crtd.	.....	1½	D 1	1½
Hardware, N. O. S., boxed	2	2	2	3
Heating Boiler	3	2	3	3
10 ft. and under in length	3	3	2	3
Hitching Posts	3	4	R26	4
Hog Troughs	1	3	2	2
Hopper Closets	2	4	2	4
Horse Shoes, boxes or kegs	4	6	4	4
Hose	1	1	2	1
Boxed	2	2	3	3
Hose Reel:				
S. U	D 1	D 1	1½	1½
K. D	1	1	.....	.....
Hot Bed Sash	3	3	1	4
House Raising Jacks	3	3	3	4
Hydrants	3	3	R26	4
I				
I-Beams	4	6	4	4
Imitation Brick Siding	4	6	4	4
Incandescent Lamps in boxes or bbls.	1½	1	1	D 1
Iron Bands	4	6	4	4
Iron Casing	4	6	4	4
Iron Pipe Fittings	4	6	4	4
Iron Pipe	4	6	4	4
Iron Pulleys	.....	5	3	3
Loose	1	.....	.....	.....
Boxed	2	.....	.....	.....
Weighing 100 lbs. each or over	2	.....	.....	.....
Iron Rods	4	6	4	4
Iron Roofing	4	6	4	4
Iron Sheet	4	6	4	4
Iron T	4	6	4	4
J				
Jack Screws	3	3	3	4
K				
King Governors	1	3	2	2
Kitchen Sinks	3	3	3	3
L				
Lace, Leather:				
Loose	1	1	.....	.....
In bales	2	2	1	2
Ladders, Step	1	1	1	1
Crated	2	.....	.....	.....
Lag Screws, in boxes or kegs	4	5	4	4
Lamps, Gasoline	1	1	1	1
Lamps, Incandescent in boxes or bbls.	1½	1	1	D 1
Lamps, Signal, in boxes or bbls.	1	2	1	1
Lamps, Switch, in boxes or bbls.	1	2	1	1
Lanterns, in boxes or barrels	1	2	1	1
Lath, Machines	1	3	1	1
Lath, Mills	1	3	1	1
Lathes, Foot	1	3	1	1
Lawn Sprinklers	2	1	2	2
Laundry Stoves	3	3	3	3
Laundry Tubs	3	3	3	3
Lavatories	2	4	2	4
Leather Belting	1	2	2	2
Lounges, K. D	1	1	1	1
Low Down Closets:				
Iron	3	3	3	3
Earthenware	2	4	2	4
M				
Machinery	1	3	1	1
Manhole Covers	1	5	4	4
Matting	1	1	1	2
Mattresses:				
Boxed or wrapped	1	1½	1½	1
Woven Wire	1	1	1½	1
Marble Tile	4	4	R26	4
Marble Slabs	4	4	R26	4
Meat Cutters	1	2	1	2
Mesh Fencing	3	5	3	3
Mirrors	1	1	1	1
Motors	1	3	1	1
Music Cabinets:				
S. U	D 1	1	1½	D 1
K. D. boxed	1	.....	2	.....
Music Stands	2	1	1	1
N				
Nails	4	6	4	4
O				
Oils:				
In tin cans, jack'd	1½	1	1	2
In barrels	3	3	3	3
P				
Paint:				
In jacketed cans	1	2	1	1
In barrels	4	4	4	4
Paper, Building	3	5	R26	4
Pick Handles, in bundles	2	3	3	4
Pins, Oak	4	4	3	3
Pipe, Iron	4	6	4	4
Pipe Fittings	4	6	4	4
Pipe Radiators	3	3	3	3
Pipe, Sewer	.....	6	4	4
N. O. S	2	.....	.....	.....
In crates or Hbds	4	.....	.....	.....
Pipe, Wooden	3	4	4	...
Plates, Steel	4	6	4	4
Porcelain Knobs	3	2	R26	4
Post Drills	2	2	3	2
Post, Hitching	3	4	R26	4
Pulleys	.....	5	3	3
Loose	1	.....	.....	.....
Boxed	2	.....	.....	.....
Pumps:				
Power	1	3	2	3
Hand	3	5	R25	3
Q				
Queensware, in bbls boxes or kegs	2	4	R26	4
R				
Radiators	3	5	3	3
Rails, Iron or Steel	4	6	4	4
Reels, Wire	.....	3	3	3
S. U	2	.....	.....	.....
K. D	3	.....	.....	.....
Registers, boxed or crated	3	3	3	3
Reservoir Tanks	D 1	D 1	D 1	1
Rock Drills	1	3	1	1
Roll Top Desks, bxd, wrapped or crated	1	2	1½	1½
Rope, Manila	.....	3	3	4
In bundles	1	.....	.....	.....
In bales or boxes	2	.....	.....	.....
Rope, Wire	4	4	R26	4
Rubberized Galvo Roofing	3	3	R26	4
Rugs	1	1	1	1
S				
Safes:				
Weighing under 5,000 lbs	3	.....	.....	3
Weighing under 6,000 lbs	.....	3	.....	.....
Weighing under 10,000 lbs	.....	.....	3	.....
Saws, Circular	1	1	2	2
Saws, Compass:				
On boards	1	1	1	1
In boxes	2	2	3	2
Saws, Cut-off	1	3	1	1
Saws, Drag	2	3	1	2
Saws, Hack	1½	1½	1½	1½
Boxed	2	2	3	2
Saws, Mandrels	4	5	3	4
Saw Mills	1	3	1	1
Scales:				
Warehouse, Track and Wagon small parts bxd, crated	2	3	R25	3
N. O. S., boxed	2	2	2	2
Screens, Doors and Windows	1	.....	1	.....
Bdls, boxes, crates	.....	2	.....	3
Settees:				
S. U., wrapped or crated	D 1	1½	D 1	D 1
S. U., boxed	1	.....	.....	.....
K. D., boxed or bundled	2	2	.....	1
Sewer Pipe	.....	6	4	4
N. O. S	2	.....	.....	.....
In crates or Hbds	4	.....	.....	.....
Sewing Machines, S. U., bxd or packed	1	1	1	1
Shafting	4	5	4	3
With pulleys or wheels attached	1	.....	.....	.....
Sheet Iron	4	6	4	4
Sideboards, wrapp'd or crated	1	2	1	1
Sidewalk Tile, bxd or crated	4	3	R26	4
Siding	4	6	4	4
Sink Backs	3	3	3	3
Sinks	3	3	3	3
Smoke Stacks	1½	1½	D 1	1
Smoke Stack Plates.	4	6	4	4
Smyrna Rugs	1	1	1	1
Sprinkler, Lawn	2	1	2	2
Steam Heaters	3	.....	.....	3
S. U	.....	1	1	.....
K. D	.....	3	3	.....
Steam Radiators	3	3	3	3
Steel Ceiling	4	6	4	4
Steel Ranges	4	6	4	4
Steel Roofing	4	6	4	4
Steel Sheet	4	6	4	4
Steel Siding	4	6	4	4
Steel Trusses	4	6	4	4
Steel Tubes	4	6	4	4
Stoves	3	3	3	3
Stump Pullers:				
S. U	1	.....	.....	.....
K. D	3	4	R25	3
Syphon Jet Closet	2	4	2	4
Syphon Wash Down Closet	2	4	2	4
T				
T-Iron	4	6	4	4
Tables, Extension, K. D	3	2	2	2
Tables, Parlor, S.U., wrapped or crated	D 1	1½	1½	1
Telephones	1	1	1	1
Telephone Wire	4	6	4	4
Tents	1	1	1	1
Tent Poles	3	3	3	3
Threading Machines	1	3	1	1
Tools, Hand, see Hardware.				
Trusses	4	6	4	4
Tubes	4	6	4	4
Typewriter Desks, boxed, wrapped or crated	1	2	1½	1½
U				
Urinals, Iron	2	3	3	3
V				
Valves, see Pipe Fittings.				
Varnishes:				
In cans, jacketed	1	1	1	2
In barrels	2	3	3	3
Vault Doors	3	3	3	3
Velvet Rugs	1	1	1	1
W				
Wagon Scales, see Scales.				
Wash Down Closets:				
Iron	3	3	3	3
Earthenware	2	4	2	4
Washing Machines, boxed, crated or packed	1	2	1	1
Wardrobes:				
S. U	D 1	1½	D 1	1
K. D	2	2	2	2
Wash Stands, wrapped or crated	1	2	1	1
Water Heaters, Gas or Gasoline, boxed	1½	2	1	2
Wind Mills, K. D	3	3	R25	3
Wind Mills, Towers, K. D	3	6	R25	3
Windows, Screen	1	.....	1	.....
Bdls, boxes or crts.	.....	2	.....	3
Wringers, boxed or crated	2	2	2	2

LOADING LUMBER FOR CUSTOMERS. WE HAVE 5 TRACKS. CAPACITY 50 CARS PER DAY.

LUMBER AND BUILDING MATERIAL.

All Brand New, Thoroughly Seasoned, Guarantee Grades Ready For Immediate Shipment.

GENERAL FACTS.

The Chicago House Wrecking Co., offers the largest and best assorted stock of brand new, high grade lumber direct to the consumer and user at lowest prices. We are the largest company in the world devoted to selling an extensive line of material such as we offer direct to the consumer. Through our superior buying facilities, and our reputation for taking advantage of special sales, such as Sheriff's, Forced or Receiver's Sales, regardless of how big the amount in dollars and cents, or the quality involved, frequently enables us to purchase our stocks at exceptionally low prices, and we in turn aim to give our customers the benefit of any saving we can make, by quoting them prices that will often mean a saving of from 25 to 50 per cent. .

We Do Not Handle Second Hand Lumber.

Our stock consists of all BRAND NEW material, and we ask you **not** to allow statements to the contrary, made by local dealers and persons who do not know any better, to influence you in the matter, **but find out for yourself.** Get our **GUARANTEED** quotation, delivered free of all freight charges F. O. B. cars, your home station, safe and sound delivery of every item guaranteed. It is a no-risk proposition so far as you are concerned, as we guarantee every item that we sell to be strictly as represented and our guarantee is considered good.

We Ask You to Read

copies of some of the thousands of testimonial letters we receive from customers who purchased their lumber and building material from us, many of whom have never seen their material until it reached them, or have never seen the inside of our establishment, and we therefore ask you to kindly consider these expressions from our customers, who have no interest in our establishment, and who have no interest in writing us in this matter, except to express their honest opinion as to quality of material and treatment they have received.

Compare These Letters.

Compare the statements made therein against the slanderous statements that will be made by local dealers and members of the various Dealers' Associations and others who profit by maintaining high prices and keeping out outside competition, so as to sell their material at exorbitant prices.

We ask you to kindly read the following pages carefully. **It will pay you to do so** and it will give more information on the subject of lumber and building material in a few moments than you could perhaps gain in your local vicinity the balance of your life.

MORE GENERAL FACTS

Our Stock and Supplies.

WE carry in stock here at our Chicago plant at all times from 15 to 30 million feet of all kinds of building lumber. We have for immediate delivery a complete line of timbers, joists, scantlings, studding, boards, sheathing, ship lap, siding, flooring, ceiling, finishing lumber, lath, shingles, posts, etc., etc., as well as a complete line of mill work of all kinds fully covered in the millwork section of this book.

Our stock consists of a complete line of the various woods used for all kinds of building purposes, including finishing, lumber, siding, flooring, etc., etc. Materials of Southern Pine, Northern Soft Pine, Cypress, Poplar, Spruce, Red Cedar, Western Soft Pine, all kinds of flooring including hard Pine, White Pine, Spruce, Fir, Oak, Cypress, Maple, etc., etc., in fact we carry practically a most complete variety of lumber, and can meet the reasonable requirements of each and every customer in practically any section of the United States.

We can furnish you lumber for every purpose from the very finest grades that are manufactured to suit the most particular, to the lower grades which are used where the higher are not required. You must readily see the advantage of dealing with a concern that carries the stock such as we do and from which a selection can be made that will meet the demand of the most particular.

Our Grades and Quality.

All lumber we offer is manufactured, sorted and graded according to the rules of the various Manufacturers Association; all our Southern Pine is graded according to the Southern Pine Manufacturers Association. White Pine according to the Northern Pine Manufacturers Association; Hardwood according to the National Hardwood Association and so on throughout all grades and kinds. Grade for grade, we guarantee our lumber to be exactly the same quality as is carried in stock for the same grades by the very best yards in the country and can guarantee our stock, equal and, in many cases, superior to the average retail offered.

Our finishing material, flooring and other items of this character are steam kiln dried stock, is loaded direct from our sheds to your car which insures you the very best of bright, clean and dry stock suitable for natural finish or any stain finish you may wish to effect.

All our lumber is thoroughly seasoned and **new stock.** We do not allow it to accumulate or deteriorate in quality on account of age. Our lumber moves rapidly and a personal visit here to our establishment where you can observe the busy scenes of our lumber yard will readily convince you of this.

Manufacture and Sizes.

All our lumber is manufactured and sized according to the standards adopted by the various manufacturers, governing its manufacture.

Our Dry Sheds and Warehouse Capacity 4,000,000 Feet.

WE have one of the finest and largest lumber dry-sheds in the city of Chicago, in which are stocked continually from 3,000,000 to 4,000,0000 feet of all kinds of finishing lumber, siding, flooring and other high class stock, hence we are able at all times to furnish material of this character in a dry and satisfactory condition, ready for immediate use.

Adjoining this warehouse is a portion of our main shipping and loading track, which is covered by a hood extending from the sides of the warehouse the entire length of the building, and enables us to load a large number of cars under cover, regardless of weather conditions.

Our Shipping Facilities.

Capacity, 50 cars per day.

WE have positively the best railroad facilities of any shipper in the United States, and our Chicago yard is situated on a famous belt line system connecting with every railroad entering Chicago. Think of it!—every railroad entering this great city of Chicago is a part of our shipping system. We can cover the entire United States. Our lumber yards switch tracks are so arranged as to facilitate all incoming and outgoing cars at one time. and we can take care of a tremendous number of cars of incoming and outgoing material daily. This means that we can load a car in our own yards and ship it on any road to any railroad station in the United States in the quickest possible time—which also means you can come to Chicago and make a thorough inspection of the material we have to offer, and, if you make your purchase, have it loaded the same day and see the car taken out of our yards before you leave our plant, if you so desire.

Our Mill Connections.

WE have the very best sawmill connections, who maintain the highest standard of manufacture, and who, we have found from experience furnish the very best quality, grade for grade. We have these connections in many states, including Mississippi, Arkansas, Texas, Louisiana, Alabama, etc., enabling us to maintain a complete line of Southern Pine stock at all times. Our northern mill connections are located in Michigan, Wisconsin and Minnesota, and from this source we get our supply of White Pine and other northern soft pine products. Our Red Cedar, Fir, and Oregon Spruce come from our Pacific coast connections, and our supply is from some of the finest, best equipped and largest mills located at that point.

We also have in our lumber yard right here in Chicago a complete sawmill, and are able to saw, on short notice, any special stock that may be required. Our planing mill connection in Chicago is the very best. We can furnish promptly material of any pattern, shape or size your building may require, and guarantee our planing mill work equal to the best, and in many instances to surpass the average stock ordinarily made and sold on the market.

Careful Loading.

WE load all our mixed lumber and millwork orders in box cars which have been thoroughly inspected as to their condition. All the heavy material and dimension material is generally loaded at the bottom, same being carefully piled, with lighter material and millwork on top. Everything is packed and piled in a manner so as to reach customer in the best possible condition and to cause less difficulty in unloading.

When the car is loaded it is sealed on both sides, and these seals are not to be broken except in customer's presence when car reaches him, thus insuring against theft or other disappearance of the material while in transit.

Direct Shipments From Mill.

BY direct shipments from mill is meant shipping lumber direct from our various mill connections. This means that the lumber is loaded **right at the mill;** and for such shipments lower prices can be made, but under no conditions can shipment be made in less than carload lots. If the material is to go West of the Mississippi river, the minimum carload is 30,000 pounds, or just about 12,000 feet of mixed lumber such as would ordinarily go into a house or barn bill. If the shipment is to go East of the Mississippi river, where the minimum carload weight is 34,000 pounds, the quantity must not be less than 14,000 feet of mixed material as would ordinarily go into a house or barn.

Delivery can seldom be guaranteed inside of three weeks, regardless of what promises are made you by others. We have found from practical experience that this amount of time will be required, and we find it is to our advantage to have our customers who wish to order in this manner posted, so that they can regulate their affairs accordingly.

No millwork, shingles or small mixed orders for lumber accepted for this class of shipments; but to anyone requiring a reasonable straight carload of timbers, dimension or inch lumber, and who can wait the length of time required for delivery, this method of shipment will mean a considerable saving.

Absolute Proofs of Our Savings

AND

Fair Treatment of All Customers

SEE EXPLANATION BELOW

"Saved 40 Per Cent"

———, South Dakota.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: Received car No. 67092 six days after you made shipment. We were far more than satisfied with the lumber. I really believe now that I saved 40 per cent by shipping from your house. Will always be ready to put in a good word for your house. (Signed) Christ Nelson.
R. No. 2, Box 44.

"Saved 400 Dollars"

———, New Jersey.

Chicago Housewrecking Co.,
Chicago, Ill.

Dear Sirs: Our carload of lumber is here and unloaded. Everything is in first-class order and a great deal better in every way than we expected, and we want to thank you for your prompt shipment and excellent measurements. I am sure I saved at least four hundred dollars ($400) on the load. I expect to build a barn next year, so you can expect to hear from me again, I am,
(Signed) O. H. Faulkner.

"Ready With a Good Word"

———, Missouri.

Chicago Housewrecking Co.,
Chicago, Ill.

Dear Sirs: The car of lumber you shipped me is unloaded and I found everything better than expected. Several men examined the lumber and were well pleased with its appearance. I shall be ready with a good word for the Chicago House Wrecking Company to those who contemplate buying anything you carry in stock. Thanking you for your promptness and kindness. (Signed) G. C. Thrailkill.

"Saved $370"

———, Iowa.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: I have received the lumber which I have ordered from you. I received it $370 less than the figures were here and received better lumber. Now my neighbors are after me to ask you what you will take for a car of 6 inches thick by 7 feet long fence posts and how many will go in a car.
(Signed) Louie Wollesen.
R. F. D. No. 1.

"C. H. W. Co. is the Place to Buy"

———, Wisconsin.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: I received the lumber I bought of the Chicago House Wrecking Company last week and I found everything O. K. I am well pleased with the quality of the lumber. I am now satisfied the Chicago House Wrecking Company is the place to buy lumber. Thanking you for the promptness in shipping, and expecting to do more business with you in the future.
(Signed) J. W. Payne.

"One from Own House Designs"

———, Massachusetts.

Chicago Housewrecking Co.,
Chicago, Ill.

Dear Sirs: We received the car of lumber all in good condition and all there as far as I can make out until we get it built. It came in quick time, being here May 11th. Order No. 32308. We are very much pleased with the lumber, and neighbors that helped us say that when they build, they will send there for their goods. Yours truly, (Signed) Howard L. Smith.

"Saved $100, Everything O. K."

———, Wisconsin.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: The car of lumber we ordered of you May 28th received and unloaded. It came into Fond du Lac Saturday evening and we finished unloading Tuesday, 4 p. m. We found the lumber better than we anticipated. Everything was all right. Some of the people who saw the lumber think it is splendid. We are very very well satisfied and we consider we saved $100 by ordering from you. We want to thank you for your kindness while there. When we can use everything that you handle you will certainly hear from us. (Signed) F. W. Root & Son.

"Entire Satisfaction"

———, Iowa.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: I acknowledge receipt of shipment of order No. 0920, which arrived in good order, full count, and material most satisfactory. Please accept my thanks for your promptness. When and wherever I shall have an opportunity to speak a good word in your behalf, and express my entire satisfaction with my purchase of building material from you, I certainly will gladly do it. Wishing you success, I remain, yours very truly,
(Signed) Melchr Luchsinger.
(The above refers to second shipment.)

"Will Send for More"

———, Pennsylvania.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: I received the mantels some time ago and they reached here in good shape and am well pleased with all the material that I bought of you. It was the best lot of lumber that has been used in this section for some time. I will send to you for more lumber when in need of any more. I would like very much if you would send the amount I am owing you on the mantels as I wish to get all bills settled. I have not received any bill for them and wrote you some time ago to that effect, so kindly send same and I will send check for the amount. Thanking you for the way your company has treated me in past dealings.
(Signed) H. C. Burton.

"All the Items Checked Off as Ordered"

———, New York.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: The lumber received and finished unloading yesterday. All the items checked off as ordered. Everything is satisfactory. The quality is enough better to compensate for the difference in freight. Nearby dealers acknowledge your prices are below them. (Signed) E. E. Wilson.

"Very Good"

———, Minnesota.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: My lumber arrived here in good shape and it is very good, and I am well pleased with my whole bill of lumber, and hope some time to get another bill from you. (Signed) Wm. M. Croix.

"Lumber O. K."

———, Kentucky.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: The car of lumber No. 26760 N. Y., C. & St. L. (house design No. 130) arrived here May 12th, and would say, as far as I have seen, the lumber is O. K. I have not had time to check it up, but will do so this week; but I do not expect to find any difference between the bill of material and the bill of lading. I saw the Oak trim and will say it is A No. 1.
(Signed) Wm. E. Conlon.

"Better Than Local Dealers"

———, Michigan.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: The shingles arrived and we unloaded them yesterday. They are above our expectations as to quality and conditions being two grades above the $3.75 shingles sold by local dealers. There were 35,000 as per order and only two bunches broken open.
(Signed) I. W. Longrell.

"Everything in Good Condition"

———, New Jersey.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: I received the carload of lumber May 20th which you sent me and found everything in good condition and to my satisfaction. Hoping that you received the check for the remainder of the amount and thanking you for the promptness in which you filled the order.
(Signed) Albin Thorson.

"Two Barns, Everything O. K."

———, Illinois.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: My car of lumber from you arrived in Fowler on June the 7th and I found everything O. K. There were two barns in the car, one 40x62 and the other 36x44. I have built about forty barns in the past nine years and have never had any better lumber than this car. Thanking you for the prompt shipment.
(Signed) Casper M. Bresch.

"I am Well Pleased"

———, South Dakota.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: The car arrived all O. K. Everything is satisfactory with the lumber, good measure and I can say I am well pleased. When I am in need of more will give you the bill.
(Signed) Lewis H. Burdick.

"Saved $300, Everything Correct"

———, Illinois.

Chicago Housewrecking Co.,
Chicago, Ill.

Gentlemen: We received the last of the lumber and spouting June 9th in good shape. Everything came that the plan called for. That house must have been built a thousand times or you could not have sent everything so correct. We put the house on a higher foundation and it makes it look like a more expensive house. People that drive by and make a guess at the price of the house lay it at $4,000. The house was closed in June 9th and we will be ready for plastering in a few days. I have saved $300 on the house by buying the lumber of you. You can refer anybody to me that you want to, and they can inspect our house, that are going to build. Thanking you for your promptness in everything. (Signed) Thos. Jensen.

EXPLANATION

The reason we do not publish Post Office addresses of customers who have been kind and courteous to send us the above letters, is, because in former catalogues in which we published these, several customers have been annoyed by receiving annoymous letters sent them by unscrupulous local dealers and friends of the various lumber dealers associations, causing a lot of unnecessary and useless correspondence.

If you doubt the genuineness of the letters reproduced above and intend to purchase material from us, we will be pleased to furnish exact address of any one or more. We have thousands of additional letters; receive them every day. They speak for themselves. Space will not permit for a reproduction of a greater number, better than these letters is the quality and low prices that caused them to be written.

General Information On Lumber

Prices, Making Lists, Shipments, Etc.

PRICES

The Prices in this book on **Lumber of all kinds, Shingles** and **Lath** are subject to fluctuations. It would be next to impossible for us to keep a correct, accurate and right up-to-date price list on the above items, so as to cover every possible rise that may emanate from market conditions. For instance we may have a certain number of items on which we thought we were publishing low prices, and yet within 24 hours from time of issue of this catalogue, we might purchase at some special sale millions of feet of this particular item, thus enabling us to furnish same at a very much lower price than our printed prices.

Therefore we had deemed it best to publish a sort of a standard list. This list is more of a guide to prospective customers, showing the relative value of the different items rather than the actual net prices.

For Actual Net Delivered Price

send us your complete list, showing what you will need and where you will want it delivered. Include all Lumber, Millwork, Hardware, Plumbing, Heating, Paint, Oils, etc., etc., and in your Lumber list be sure to mention purpose for which the various items are to be used as this will enable us to make a much more intelligent quotation, and frequently will give us an understanding of your requirements although your list may be in error and in the end might mean a big saving to you.

This list is an easy matter to make out. Simply state the number of pieces, the size, length and the purpose for which you wish to use them. Use our Catalogue numbers wherever you can. If you are in a hurry for the estimate, name the date when you must have it and we will do our level best to get it to you at the time.

Do Not Send

Sketch, Blue Print Plans, Drawings or Descriptions for our estimates, unless accompanied by a bill of material showing items you will be in need of. Any prices you get in such a manner must be a long way from absolutely correct. There are too many loop holes for substitutious, insufficient quantities and misunderstandings. However, a definite list such as we request above leaves no doubt. We will know just what to figure on, and can figure accurately on your requirements.

Our estimate to you will read **Delivered At Your Home Station.** You will have no freight charges to bother with, no guess work, no misunderstanding.

Don't Listen to Jealous Dealers

They will do their best to discourage you from even corresponding with us. They know that when we once make you prices, it will be all off with them. They will make statements contrary to every guarantee printed in this book, why—for no other reason than to get your order at their high prices and to maintain these high prices continually. No statement is too libelous for them to make, no method seems to be too low for them and their associations.

We do not have to resort to such means to get our orders. Not one word will you hear from us against any other concerns' material, unless they have been trying to "do" us. We do not have to run down their materials to get our orders. Our system is simply, good goods, honest grades, low prices, a fair and square deal, and it makes no difference to us whether you are an expert buyer or whether you do not know a thing about it, you can come and buy from us just as cheap. We have **One Price, One Treatment** and **One Policy,** which is fair and square to all.

A Woman can come here and buy $1.00 worth of material or a complete house or barn just as cheap as the expert and with a feeling of absolute safety. We have among our satisfied customers, many women customers who, owing to circumstances, are compelled to transact their own business.

Come and Visit Our Plant

You have an open invitation to visit our plant. Come and see our Lumber and Millwork. You are welcome. You will be shown every courtesy and the best of care will be taken of you and your interests. We have nothing to hide, and you will be agreeably surprised at the magnitude of our establishment, the great number of people we employ in our Lumber Department. Consult our estimators and architects, let them help you in your contemplated building operations.

Honest Competition

To a dealer or merchant who is honest, fair and square in his competition we present our compliments. We desire nothing fairer.

Terms

Our general terms are cash and have been outlined in the preceding pages of this catalogue. Write for special terms, if desired, on Lumber Orders, Carload Shipments.

Now Is the Time to Order

Do not delay sending in your list for our estimate. **Now Is the Time to Buy Lumber.** Our Forest products are becoming less and less every year, and as quantity diminishes the price increases. It is a natural condition governed by the law of supply and demand, therefore if you intend to build or, have any intention of building in the near future, Now is the time to get our prices.

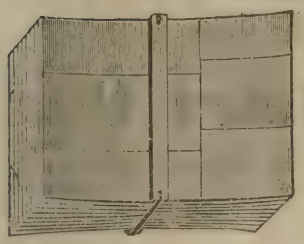
Do not overlook the fact that we publish the handsomest Plan Book in the United States offered for **Free Distribution.** This plan book will give you full information and prices on a large number of houses, barns, etc., and will be of valuable benefit to you in your contemplated building operations.

In this catalogue we show a few pages from the plan book. This will give you an idea of what the book is like. **Write For It Today.** Mention the fact that you have seen our offer in this catalogue and your request will get immediate attention.

PRICE LIST OF LUMBER

ALL PRICES QUOTED ARE F. O. B. CARS, CHICAGO.
Prices on Lumber, Shingles, Lath Subject to Change. See Page 16 for Full Explanation.
Send Us Your Bill for Delivered Prices.

Red Cedar Shingles.



Manufactured from the best selected logs, carefully packed, bound with fir bands and iron straps.

Our Washington State Red Cedar Shingles are the best manufactured. In order to make the quality of the shingles consistent with the durability of the natural wood, only the best and finest tooth saws are used in cutting, and only skilled workmen are employed in operating the upright machines and in the packing bins.

We carry in stock at all times, three grades of red cedar shingles, 5/2 Clears or "thick butt" and 6/2 Extra *A* as well as Diamond *A*.

Extra *A* red cedar shingles are the most popular shingle on the market and are the most extensively used. The only difference between the above two grades is the difference in thickness. They are both practically the same quality.

Diamond *A* red cedar shingles are the best second grade shingle made. These shingles are graded out from a high grade stock on account of minor defects in manufacture or quality. They are not a clear shingle, but are guaranteed to have a 6″ and better clear butt.

A good and practical roof can be made by laying these shingles 4-1/2 inches to the weather. In this manner no defects will be exposed to the elements. We recommend these shingles for sheds, small barns and other outbuildings.

850 Shingles laid 4-1/2″ to the weather will cover one square or 100 square feet.

All our shingles are put up in bunches of 250 shingles. Four (4) bunches to a thousand.

Length.		Price per M.
Diamond *A*,	16″, Red Cedar Shingles	$2.45
Extra *A*,	16″, " " "	3.25
5/2 Clear,	16″, " " "	3.85

DIMENSION SHINGLES.

These shingles are manufactured from the very best selected stock and are absolutely clear. They are all 5/2″ or thick butt shingles. We can furnish square or any fancy design wanted.

	Price per M.
Square butts, 5 or 6″ widths	$5.50
Fancy butts, any design	6.00

SHINGLES IN CARLOAD LOTS.

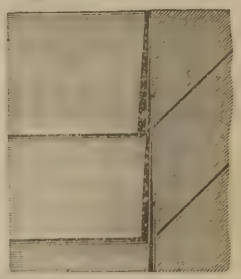
We have in transit from our mills and at Minneapolis transfer, at all times, from 25 to 50 carloads of shingles. If you can use a carload of shingles, we can ship same to you direct on a through freight rate and save you considerable sum of money. If you can not use a full carload yourself, you can club together with your neighbors and friends, and in that way save yourself as well as your neighbors money. Many of our customers frequently buy a full carload and sell such shingles as they do not want in their neighborhood at a very handsome profit; 175 to 250 thousand shingles will make a carload. We can furnish either a full carload of one kind or a mixed carload. Write us for special delivered prices in carload lots. We sell and ship more shingles than any other lumber yard in the world.

NO ORDERS ACCEPTED for material on this page amounting to less than $10.00, for the reason, in shipping small quantities by local freight, it is necessary to bundle and mark all pieces. Involving considerable more expense and labor in handling.

Beveled Siding.

WEATHER BOARDING OR CLAPBOARDS.

Various kinds of woods and grades to suit individual requirements. Furnished in standard lengths.



RED CEDAR SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
C	½″ x 4″	$16.00	$0.54
C	½″ x 6″	16.00	.80
B	½″ x 4″	20.00	.67
B	½″ x 6″	22.00	1.10

WESTERN SPRUCE OR OREGON WHITE PINE SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
B	½″ x 4″	$20.00	$0.67
B	½″ x 6″	22.00	1.10
Clear	½″ x 4″	24.00	.80
Clear	½″ x 6″	25.00	1.25

LOUISIANA RED CYPRESS SIDING.

Grade.	Size	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
No. 1	½″ x 6″	$18.00	$0.90
Select	½″ x 4″	20.00	.67
Select	½″ x 6″	22.00	1.10
Clear	½″ x 4″	24.00	.80
Clear	½″ x 6″	26.00	1.30

POPLAR SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
C	½″ x 4″	$18.00	$0.60
C	½″ x 5″	20.00	.84
C	½″ x 6″	20.00	1.00
B	½″ x 4″	20.00	.67
B	½″ x 5″	22.00	.92
B	½″ x 6″	23.00	1.15
Clear	½″ x 4″	26.00	.87
Clear	½″ x 5″	28.00	1.16
Clear	½″ x 6″	28.00	1.40

GENUINE MINNESOTA WHITE PINE SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
No. 1	½″ x 4″	$18 00	$0.60
No. 1	½″ x 6″	20.00	1.00
C	½″ x 4″	24.00	.80
C	½″ x 5″	25.00	1.04
C	½″ x 6″	26.00	1.30
B	½″ x 4″	29.00	.95
B	½″ x 5″	30.00	1.25
B	½″ x 6″	30.00	1.50

ARKANSAS SOFT PINE.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
B	½″ x 4″	$18.00	$0.60
B	½″ x 6″	18.00	.90
Clear	½″ x 4″	21.00	.70
Clear	½″ x 6″	22.00	1.10

All Siding put up in bundles of 10 pieces.

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Send Us Your Bill for Delivered Prices.

DIMENSION MATERIAL

Scantling, Studding, Joists Southern Pine

All piece stock quoted below is dressed one side and one edge to standard measure, and is therefore properly sized. We guarantee same to be straight and sound and to work full length without waste. We furnish specified size and lengths. We again repeat, the material we quote here is all brand new stock, guaranteed grades, most of it coming from the very best and largest mills, whose reputation for good grades and well seasoned lumber is firmly established.

In making up an order for a carload of lumber, it is well to remember it is always to the purchaser's advantage to make up an order for a carload, which, if you are located east of the Mississippi River requires about 15,000 feet board measure, of mixed lumber, and west of the Mississippi River about 12,000 feet of mixed lumber. Either of these quantities will make sufficient weight to get the benefit of carload rate of freight.

The minimum carload weight upon which freight must be paid in order to get the benefit of carload weight east of the Mississippi River is 34,000 lbs., and west of the Mississippi River is 30,000 lbs., hence the difference in the quantity necessary to make up carload.

As previously stated, we can load up to 25,000 feet on a car, without any danger of overloading depending on the class of material that is loaded, but the number of feet as stated above are necessary to make the required minimum weight upon which the benefit of carload rates can be had.

In sending in your list of items do not overlook the advantage of mentioning clearly the purpose for which the items are to be used; this will help us understand just what you want.

However, kindly remember, as stated in preceding pages, we are willing at all times to name you delivered prices on any material you are in the market for, if you will send us a list showing what you will need. With this list in our possession we can figure definitely upon your requirements and name you exact delivered prices so you will know just exactly what the material will cost you laid down at your station. We guarantee safe delivery and prompt shipment.

NO ORDERS ACCEPTED for material on this page amounting to less than $10.00, for the reason, in shipping small quantities by local freight, it is necessary to bundle and mark all pieces, involving considerable more expense and labor in handling.

Size Inches	Length Feet	Price per 1000 ft. B. M.	Price for Each Piece
2x 3	8	$16.00	$0.07
"	10	20.00	.10
"	12	20.00	.12
"	14	20.00	.14
"	16	20.00	.16
"	18	20.00	.18
"	20	20.00	.20
2x 4	4	10.00	.03
"	6	16.00	.07
"	8	18.00	.11
"	10	24.00	.16
"	12	22.00	.18
"	14	21.00	.20
"	16	21.00	.23
"	18	24.00	.29
"	20	24.00	.32
"	22	24.00	.35
"	24	24.00	.38
"	26	26.00	.45
"	28	28.00	.53
"	30	30.00	.60
2x 6	4	10.00	.04
"	6	14.00	.09
"	8	16.00	.13
"	10	20.00	.20
"	12	20.00	.24
"	14	20.00	.28
"	16	20.00	.32
"	18	20.00	.36
"	20	20.00	.40
"	22	24.00	.53
"	24	24.00	.58
"	26	28.00	.73
"	28	28.00	.78
"	30	30.00	.90
2x 8	4	10.00	.06
"	6	16.00	.13
"	8	18.00	.20
"	10	22.00	.29
"	12	20.00	.32
"	14	20.00	.37
"	16	20.00	.43
"	18	22.00	.53
"	20	22.00	.60
"	22	26.00	.76
"	24	26.00	.83
"	26	28.00	.98
"	28	30.00	1.11
"	30	32.00	1.28
"	32	33.00	1.42

Size Inches	Length Feet	Price per 1,000 ft. B. M.	Price for Each Piece
2x10	4	$10.00	$ .07
"	6	16.00	.16
"	8	20.00	.27
"	10	22.00	.37
"	12	21.00	.42
"	14	21.00	.49
"	16	21.00	.56
"	18	22.00	.66
"	20	22.00	.73
"	22	26.00	.95
"	24	26.00	1.04
"	26	28.00	1.22
"	28	30.00	1.40
"	30	32.00	1.60
"	32	33.00	1.76
"	34	34.00	1.93
"	36	35.00	2.10
2x12	4	10.00	.08
"	6	16.00	.19
"	8	22.00	.35
"	10	23.00	.46
"	12	22.00	.53
"	14	22.00	.62
"	16	22.00	.70
"	18	23.00	.83
"	20	23.00	.92
"	22	27.00	1.19
"	24	27.00	1.30
"	26	29.00	1.51
"	28	31.00	1.74
"	30	33.00	1.98
"	32	34.00	2.18
"	34	35.00	2.38
"	36	36.00	2.60

No. 2 GRADE.

Any of the above piece stock furnished in No. 2 grade at a reduction of $2.00 per 1000 feet.

No. 3 GRADE.

This grade of lumber includes such pieces as have been graded out from No. 1 and No. 2 on account of defects either in manufacture or quality. Material is suitable for small buildings, such as cheap cattle and sheep sheds, hog houses, platforms, side walks, elevator cribbing, repair work, temporary construction, in fact any place where a first class piece is not required. Furnished only in random lengths and widths, all stock surfaced one side and one edge.

Price per 1000 ft. $12.00

WHITE PINE STUFF.

Scantling, studding and joists carried in stock. Send us your list for delivered prices.

Prices on Special Worked Stock

For 2" Rough piece stock add	$1.00 per 1000 ft.
For 2" piece stuff surfaced 2 sides add	1.25 per 1000 ft.
For 2" piece stuff surfaced 4 sides add	2.50 per 1000 ft.
For 2" piece stuff surfaced one edge only add	1.50 per 1000 ft.

PRICE LIST OF LUMBER

ALL PRICES QUOTED ARE F. O. B. CARS, CHICAGO.

Prices on Lumber, Shingles and Lath, are Subject to Change, See Page 16 for Full Information.
Send Us Your Bill for Our Delivered Prices.

TIMBERS AND HEAVY JOISTS

No. 1 GRADE.

All timbers and heavy joists offered are guaranteed to be the very best long leaf, southern pine stock, square edge and sound throughout. All timbers listed below are surfaced four sides to standard measurement and all 3" joists are surfaced one side and one edge to standard measurement.

NO ORDERS ACCEPTED for material on this page amounting to less than $10.00, for the reason in shipping small quantities by local freight, it is necessary to bundle and mark all pieces, involving considerable more labor and expense in handling.

Size Inches	Length Feet	Price per 1,000 ft. B. M.	Price per Each Piece
3x 4	8	$25.00	$0.20
"	10	25.00	.25
"	12	25.00	.30
"	14	25.00	.35
"	16	25.00	.40
"	18	25.00	.45
"	20	25.00	.50
"	22	26.00	.57
"	24	26.00	.63
3x 6	8	25.00	.30
"	10	25.00	.38
"	12	25.00	.45
"	14	25.00	.53
"	16	25.00	.60
"	18	25.00	.68
"	20	25.00	.75
"	22	26.00	.87
"	24	26.00	.94
"	26	28.00	1.09
"	28	29.00	1.22
"	30	30.00	1.35
3x 8	8	25.00	.40
"	10	25.00	.50
"	12	25.00	.60
"	14	25.00	.70
"	16	25.00	.80
"	18	25.00	.90
"	20	25.00	1.00
"	22	26.00	1.15
"	24	26.00	1.26
"	26	28.00	1.47
"	28	29.00	1.62
"	30	30.00	1.80
3x10	8	26.00	.52
"	10	26.00	.65
"	12	26.00	.78
"	14	26.00	.91
"	16	26.00	1.04
"	18	27.00	1.21
"	20	27.00	1.35
"	22	28.00	1.54
"	24	28.00	1.68
"	26	30.00	1.95
"	28	31.00	2.17
"	30	32.00	2.40
"	32	33.00	2.64
"	34	34.00	2.89
"	36	35.00	3.15
3x12	8	27.00	.65
"	10	27.00	.81
"	12	27.00	.97
"	14	27.00	1.14
"	16	27.00	1.30
"	18	28.00	1.51
"	20	28.00	1.68
"	22	29.00	1.92
"	24	29.00	2.09
"	26	31.00	2.42
"	28	32.00	2.69
"	30	33.00	2.97
"	32	34.00	3.26
"	34	35.00	3.57
"	36	36.00	3.90
4x 4	8	25.00	.27
"	10	25.00	.34
"	12	25.00	.40
"	14	25.00	.48
"	16	25.00	.54
"	18	25.00	.60
"	20	25.00	.67
"	22	26.00	.77
"	24	26.00	.83
"	26	28.00	.97
4x 6	8	25.00	.40
"	10	25.00	.50
"	12	25.00	.60
"	14	25.00	.70
"	16	25.00	.80
"	18	25.00	.90
"	20	25.00	1.00
"	22	26.00	1.15
"	24	26.00	1.25
"	26	28.00	1.46
"	28	29.00	1.63
"	30	30.00	1.80
4x 8	8	$26.00	$0.56
"	10	26.00	.70
"	12	26.00	.83
"	14	26.00	.97
"	16	26.00	1.11
"	18	27.00	1.30
"	20	27.00	1.44
"	22	28.00	1.64
"	24	28.00	1.80
"	26	30.00	2.08
"	28	31.00	2.34
"	30	32.00	2.56
"	32	33.00	2.82
"	34	34.00	3.09
"	36	35.00	3.36
6x 6	8	26.00	.63
"	10	26.00	.78
"	12	26.00	.94
"	14	26.00	1.09
"	16	26.00	1.25
"	18	27.00	1.46
"	20	27.00	1.62
"	22	28.00	1.85
"	24	28.00	2.02
"	26	30.00	2.34
"	28	31.00	2.60
"	30	32.00	2.88
"	32	33.00	3.17
"	34	34.00	3.47
"	36	35.00	3.78
6x 8	8	26.00	.83
"	10	26.00	1.04
"	12	26.00	1.25
"	14	26.00	1.46
"	16	26.00	1.66
"	18	27.00	1.95
"	20	27.00	2.16
"	22	28.00	2.46
"	24	28.00	2.69
"	26	30.00	3.12
"	28	31.00	3.47
"	30	32.00	3.84
"	32	33.00	4.22
"	34	34.00	4.62
"	36	35.00	5.04
8x 8	8	26.00	1.11
"	10	26.00	1.39
"	12	26.00	1.67
"	14	26.00	1.94
"	16	26.00	2.22
"	18	27.00	2.59
"	20	27.00	2.88
"	22	28.00	3.23
"	24	28.00	3.59
"	26	30.00	4.16
"	28	31.00	4.63
"	30	32.00	5.12
"	32	33.00	5.63
"	34	34.00	6.16
"	36	35.00	6.72

Large Timbers. No. 1 Long Leaf Yellow Pine.

Prices per 1000 feet

Length,	Sizes 4x10, 6x10 8x10, 10x10	4x12, 6x12 8x12, 10x12 12x12	12x14	14x14	8x16 to 16x16
10 Feet	$27.00	$28.00	$30.00	$32.00	$33.00
12 "	27.00	28.00	30.00	32.00	33.00
14 "	27.00	28.00	30.00	32.00	33.00
16 "	27.00	28.00	30.00	33.00	34.00
18 "	28.00	29.00	31.00	34.00	35.00
20 "	29.00	30.00	32.00	34.00	35.00
22 "	30.00	31.00	33.00	35.00	36.00
24 "	31.00	32.00	34.00	36.00	37.00
26 "	32.00	33.00	35.00	37.00	38.00
28 "	33.00	34.00	36.00	38.00	39.00
30 "	34.00	35.00	37.00	39.00	40.00
32 "	35.00	36.00	38.00	40.00	41.00
34 "	36.00	37.00	39.00	41.00	42.00
36 "	37.00	38.00	40.00	42.00	43.00
38 "	38.00	39.00	41.00	43.00	44.00
40 "	40.00	40.00	43.00	45.00	46.00

Timbers and joists furnished any size and length. Write us for special delivered prices. We can ship timbers direct from our southern mill connections in carload lots of from 12 to 14 thousand feet on a through rate of freight and save you money.

PRICE LIST OF LUMBER

All prices quoted are free on board cars Chicago. Prices on Lumber, Lath and Shingles, subject to change. For full information see page 15. Send us your bill for delivered prices.

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FINISHING LUMBER

Inside and outside finish to meet every requirement.

YELLOW PINE OR GEORGIA PINE

Manufactured from the best selected kiln dried stock, clean, bright material, suitable for stain, oil or paint finish. Any special length from 8 to 20 feet. All stock surfaced two sides to standard thickness.

GRADE	SIZE	Price per 1,000 feet	Price per 100 Lineal Feet.
Select	1 x 4	$28.00	$0.95
Select	1 x 6	30.00	1.50
Select	1 x 8	30.00	2.00
Select	1 x10	31.00	2.50
Select	1 x12	32.00	3.20
Clear	1 x 4	32.00	1.10
Clear	1 x 6	36.00	1.80
Clear	1 x 8	36.00	2.40
Clear	1 x10	38.00	3.17
Clear	1 x12	40.00	4.00
Clear	1¼x 4	36.00	1.50
Clear	1¼x 6	36.00	2.25
Clear	1¼x 8	38.00	3.17
Clear	1¼x10	40.00	4.27
Clear	1¼x12	42.00	5.25
Clear	1½x 4	36.00	1.80
Clear	1½x 6	36.00	2.70
Clear	1½x 8	38.00	3.80
Clear	1½x10	40.00	5.00
Clear	1½x12	42.00	6.30
Clear	2 x 4	36.00	2.40
Clear	2 x 6	36.00	3.60
Clear	2 x 8	38.00	5.07
Clear	2 x10	40.00	6.67
Clear	2 x12	42.00	8.40

Furnished surfaced four sides, **$1.50** more per 1,000 feet.

WHITE PINE FINISH

Selected Stock, thoroughly dry, surfaced two sides to standard thickness.

GRADE	Thickness	Price per 1,000 Feet, B. M.				
		4 inch	6 inch	8 inch	10 inch	12 inch
Select No 1, White Pine	1 inch	$36.00	$38.00	$38.00	$38.00	$40.00
Select No. 1, White Pine	1¼ inch	42.00	43.00	43.00	43.00	47.00
Select No. 1, White Pine	1½ inch	42.00	43.00	43.00	43.00	47.00
Select No. 1, Norway	2 inch	26.00	26.00	26.00	30.00	35.00
"D" White Pine	1 inch	38.00	40.00	43.00	45.00	50.00
"D" White Pine	1¼ inch	42.00	45.00	50.00	50.00	55.00
"C" White Pine	1 inch	48.00	51.00	53.00	53.00	60.00
"C" White Pine	1¼ inch	55.00	55.00	58.00	60.00	65.00
"C" White Pine	2 inch	58.00	60.00	62.00	62.00	70.00
"B" White Pine	1 inch	60.00	60.00	63.00	65.00	70.00
"B" White Pine	1¼ inch	60.00	60.00	65.00	70.00	73.00
"B" White Pine	2 inch	65.00	67.00	70.00	75.00	80.00

Furnished surfaced four sides **$1.50** more per 1,000 feet.

CYPRESS AND POPLAR FINISH

Clean, bright stock, surfaced two sides.

GRADE	Thickness	WIDTHS				
		4 inch	6 inch	8 inch	10 inch	12 inch
Clear Poplar	1 inch	$60.00	$65.00	$65.00	$65.00	$68.00
Clear Poplar	1¼ inch	65.00	68.00	68.00	68.00	70.00
Clear Cypress	1 inch	55.00	58.00	58.00	60.00	60.00
Clear Cypress	1¼ inch	60.00	58.00	58.00	60.00	60.00

Clear Poplar or Cypress, 14 inch and wider. Price per 1,000 feet **$90.00.**
For Stock surfaced four sides, add **$1.50** per 1,000 feet.

OAK AND BIRCH FINISH

Finish furnished in Oak or Birch. Write for special delivered prices.

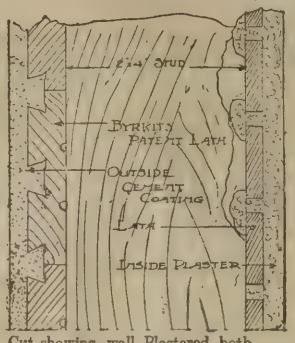
PORCH AND STAIR LUMBER

Dressed and worked to standard

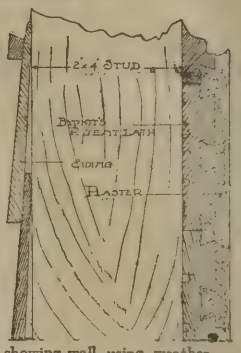
KIND AND GRADE	SIZE	Price per 1,000 Feet,
Select No. 1, White Pine Flooring	¾x4	$30.00
Select No. 1, White Pine Flooring	1¼x4	42.00
Select C. White Pine Flooring	¾x4	45.00
Select B. White Pine Flooring	¾x4	48.00
Clear, quarter sawed Fir Flooring	¾x4	50.00
Clear, quarter sawed Fir Flooring	1¼x4	55.00
Clear, plain sawed Fir Flooring	¾x4	38.00
Clear Cypress	¾x3	40.00
Clear Cypress	¾x6	40.00
Select No. 1, White Pine Steps	1¼, 1½, 2	45.00
Clear White Pine Steps	1¼, 1½, 2	60.00
Clear Spruce Step	1¼, 1½, 2	55.00
Selected Pine Square Posts	4x4 - 6x6	28.00

BYRKITS PATENT SHEATHING LATH

End View Byrkits Patent Sheathing Lath.



Cut showing wall Plastered both sides. Using Byrkits Pat. sheathing Lath outside and regular plastering lath inside.



Cut showing wall using weatherboarding outside and Byrkits Pat. sheathing lath inside.

Ship laped or Tongue and Grooved Byrkits patent sheathing lath. This material is used to take the place of regular lath and sheathing and fulfills the purpose of both. Nailed on the inside or outside of your studding, it makes a tight sheathing, and will hold plaster equally as well as lath.

4 inch Standard Lengths. Price per 1,000 ft..... $18.50
6 inch Standard Lengths. Price per 1,000 ft..... 20.00

COMMON PLASTERING LATH

Standard Size.

GRADE	Length	Price per 1,000 Pieces	Price per Bundle
No. 1 Northern Soft Pine	32 inch	$ 1.90	$ 0.10
No. 1 Northern Soft Pine	4 feet	4.00	.20
No. 2 Northern Soft Pine	4 feet	3.50	.18
No. 3 Northern Soft Pine	4 feet	3.00	.15
No. 1 Arkansas Soft Pine	4 feet	3.50	.18

All Lath tied in bundles of 50 pieces, 20 bundles to the 1,000.

Do not overlook our 32 inch Lath; you can use them any place where the studding is placed on 16 inch centers.

SHINGLE LATH FURRING AND GROUNDS

Surfaced one side; tied in bundles. Length 10 to 16 feet.

KIND	SIZE	Price per 100 Lineal Feet.
Select Pine	1x2	$ 0.35
Select Pine	2x2	.80
Select Pine	1¼x1¼	.35
Select Pine	1x1	.30

BATTENS

Manufactured from selected Arkansas Soft Pine. Practically all clear. Length 10 to 20 feet.

½x2, Flat Battens	Price per 100 Lineal Feet	$ 0.45
½x2½, Flat Battens	" " " " "	.60
½x3, Flat Battens	" " " " "	.75
2 inch O. G. Battens	" " " " "	.70
2½ inch O. G. Battens	" " " " "	.85
3 inch O. G. Battens	" " " " "	.90

Soft Pine Battens 10 to 16 feet, 10c more per 1,000 feet.
Soft Pine Battens 18 and 20 feet, 20c more per 1,000 feet.
Cut to Length.

BRIDGING

2x4 inch	Price per Piece	$ 0.02
1x4 inch	" " "	.02½
1x2 inch	" " "	.01½

PRICE LIST OF LUMBER

All prices quoted are free on board cars Chicago. Prices on Lumber, Lath and Shingles subject to change, see page 16 for full explanation. Send us your bill for delivered prices.

NO ORDERS ACCEPTED for material on this page amounting to less than $10.00 for the reason, in shipping small quantities by local freight, it is necessary to bundle and mark all pieces. Involving considerable more labor and expense in handling.

BOARDS

Southern Pine or Arkansas Soft Pine, surfaced and planed to Standard Thickness. Lengths 8 to 20 feet, specified lengths furnished. Graded according to manufacturers' grading standards.

GRADE	WIDTH	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet.
No. 3	4	$16.50	$ 0.55
No. 3	6	17.00	.85
No. 3	8	17.00	1.15
No. 3	10	17.00	1.45
No. 3	12	18.00	1.80
No. 2	4	20.00	.67
No. 2	6	21.00	1.05
No. 2	8	22.00	1.45
No. 2	10	22.00	1.85
No. 2	12	23.00	2.30
No. 1	4	22.00	.75
No. 1	6	23.00	1.15
No. 1	8	24.00	1.60
No. 1	10	24.00	2.00
No. 1	12	26.00	2.60

WHITE PINE BOARDS

Surfaced and Planed to standard thickness. Lengths 10 to 20 feet.

GRADE	WIDTH	10 to 16 Feet. Price per 1,000 Feet B. M.	10 to 16 Feet. Price per 100 Lineal Feet	18 to 20 feet Price per 1,000 Feet, B. M.	18 to 20 feet Price per 100 Lineal Feet.
No. 1	4	$28.00	$ 0.95	$29.00	$0.97
No. 1	6	36.00	1.80	37.00	1.85
No. 1	8	35.00	2.33	36.00	2.40
No. 1	10	35.00	2.92	36.00	3.00
No. 1	12	37.00	3.70	38.00	3.80
No. 2	4	26.00	.87	27.00	.90
No. 2	6	34.00	1.70	35.00	1.75
No. 2	8	33.00	2.20	34.00	2.30
No. 2	10	33.00	2.75	34.00	2.85
No. 2	12	34.00	3.40	36.00	3.60
No. 3	4	18.00	.60	.....	.....
No. 3	6	25.00	1.25	.....	.....
No. 3	8	24.00	1.60	.....	.....
No. 3	10	24.00	2.00	.....	.....
No. 3	12	25.00	2.50	.....	.....
No. 3X	4	16.50	.55	.....	.....
No. 3X	6	20.00	1.00	.....	.....
No. 3X	8	20.00	1.33	.....	.....
No. 3X	10	20.00	1.68	.....	.....
No. 3X	12	22.00	2.20	.....	.....

SHEATHING BOXING AND LINING LUMBER

Surfaced to standard thickness. Lengths 8 to 20 feet.

KIND AND GRADE	Price per 1,000 Feet, B. M.
4-inch No. 2 Pine Roofing Strip	$17.50
6-inch Nos. 2 and 3, Pine Roofing Strip	20.00
No. 3 Yellow Pine Boxing, 6-inch and wider	17.00
No. 3 Northern Soft Pine Boxing, 6-inch and wider	20.00
No. 3 Yellow Pine Shiplap Sheathing	18.00
No. 3 Northern Soft Pine Shiplap Sheathing	20.00
No. 3 4-inch Dressed and Matched White Pine Sheathing	18.00
No. 3 6-inch Dressed and Matched White Pine Sheathing	20.00
No. 2 Yellow Pine Sheathing, 6-inch and wider	21.00

ROUGH FENCING

Selected from Regular Stock for strength and durability. Lengths 8 to 16 feet.

KIND	WIDTH	Price per 1,000 Feet, B. M.	Price per 100 Lineal Feet.
White Pine	4	$22.00	$ 0.75
White Pine	6	25.00	1.25
Cypress C Select	6	32.00	1.60
Southern Pine	4	20.00	.67
Southern Pine	6	22.00	1.10

SHIPLAP

Arkansas Soft Pine or Southern Pine, surfaced and manufactured to standard size. Lengths 8 to 20 feet.

GRADE	WIDTH	Price per 1,000 Feet, B. M.	Price per 100 Lineal Feet.
No. 3, furnished only random lengths	8	$18.00	$ 1.20
No. 3, furnished only random lengths	10	18.00	1.50
No. 2, any length furnished	6	21.00	1.05
No. 2, any length furnished	8	22.00	1.50
No. 2, any length furnished	10	22.00	1.85
No. 1, any length furnished	6	23.50	1.20
No. 1, any length furnished	8	24.00	1.60
No. 1, any length furnished	10	24.00	2.00
Clear, any length furnished	6	30.00	1.50
Clear, any length furnished	8	32.00	2.15

WHITE PINE SHIPLAP

Surfaced and manufactured to standard size. Lengths 10 to 16 feet.

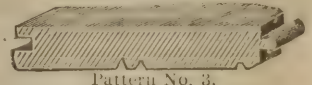
GRADE	WIDTH	Price per 1,000 Feet, B. M.	Price per 100 Lineal Feet.
No. 1	6	$36.00	$ 1.80
No. 1	8	35.00	2.35
No. 1	10	35.00	2.92
No. 2	6	33.00	1.65
No. 2	8	32.00	2.15
No. 2	10	32.00	2.65
No. 3	6	23.00	1.15
No. 3	8	22.00	1.50
No. 3	10	22.00	1.85
No. 3X	6	20.00	1.00
No. 3X	8	20.00	1.35
No. 3X	10	20.00	1.70

18 and 20 foot lengths furnished at $1.00 more per 1,000 feet.

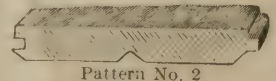
BARN SIDING, TONGUE AND GROOVED

Tongue and Grooved; Dressed and Matched and Worked to Special Patterns.

Pattern No. 1



Pattern No. 3.



Pattern No. 2

Furnished in any width, length or grade of Southern Pine, Arkansas Soft Pine or White Pine. Price per 1,000 feet $1.75 more than Ship Lap. All Barn Siding carefully selected from dry, high grade stock. Be sure and give number of pattern wanted.

GROOVED ROOFING

Furnished any width, length and grade. Price $1.00 more per 1,000 feet than Ship Lap.

CRATING LUMBER

Any grade, size or width furnished. Sawed or manufactured to meet your requirements. Can ship from Chicago stock or direct from mills. Write us for special delivered prices.

SPRUCE, OREGON FIR, CYPRESS AND POPLAR

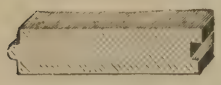
SPRUCE, OREGON FIR, CYPRESS AND POPLAR, carried in stock. All grades widths and lengths manufactured to meet your wants include this material in your bill, we can furnish it. Write us for special delivered prices.

PRICE LIST OF LUMBER

All prices quoted are free on board Chicago. Prices on Lumber subject to change, see page 16 for full explanation. Send us your bill for delivered prices.

NO ORDERS ACCEPTED for material on this page amounting to less than $10.00, for the reason, in shipping small quantities by local freight, it is necessary to bundle and mark all pieces. Involving considerable more expense and labor in handling.

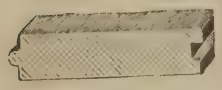
FLOORING



Hard Pine or Southern Pine. Tongued and grooved or planed to standard thickness and width. High grade flooring; all kiln dried, bright clean stock. Lengths, 8 to 20 feet.

GRADE	SIZE	Price per 1000 Feet, B. M.	Price per 100 Lineal Feet.
No. 3	1x3 in.	$15.00	$0.40
No. 3	1x4 in.	15.00	.50
No. 3	1x6 in.	18.00	.90
No. 2	1x3 in.	20.00	.50
No. 2	1x4 in.	20.00	.70
No. 2	1x6 in.	21.00	1.05
No. 1	1x3 in.	24.00	.60
No. 1	1x4 in.	24.00	.80
No. 1	1x6 in.	25.00	1.25
C	1x3 in.	27.00	.70
C	1x4 in.	27.00	.90
C	1x6 in.	28.00	1.40
Clear	1x3 in.	30.00	.75
Clear	1x4 in.	30.00	1.00
Clear	1x6 in.	32.00	1.60
Star Edge Grain (¼ Sawed)	1x3 in.	33.00	.85
Star Edge Grain (¼ Sawed)	1x4 in.	33.00	1.10
Clear Edge Grain (¼ Sawed)	1x3 in.	37.00	.95
Clear Edge Grain (¼ Sawed)	1x4 in.	36.00	1.20

BARN OR FACTORY FLOORING.

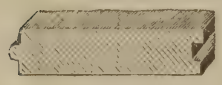


Dressed, Matched and Worked to Standard Measure.

KIND	GRADE	SIZE	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
Southern Pine	No. 2	2x6	$20.00	$ 2.00
Southern Pine	No. 1	2x6	24.00	2.40
Southern Pine	No. 1	3x6	24.00	3.60
Minnesota Soft Pine	No. 1	2x6	25.00	2.50

All Flooring sold random lengths from 8 to 20 feet. Specified lengths $1.00 more per 1,000 feet. Oak and Maple Flooring furnished in 2-inch stock for factory flooring.

WHITE PINE FLOORING.

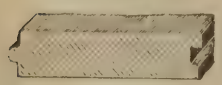


Dressed, Matched and Worked to Standard. Lengths 8 to 16 feet.

GRADE	SIZE	Price per 1,000 Feet. B. M.	Price per 100 Lineal Feet
No. 3	1x4	$ 20.00	$ 0.75
No. 3	1x6	25.00	1.25
No. 2	1x4	26.00	.95
No. 2	1x6	33.00	1.65
No. 1	1x4	30.00	1.00
No. 1	1x6	36.00	1.80
D Select	1x4	37.00	1.25
D Select	1x6	39.00	1.95
C Select	1x4	43.00	1.65
C Select	1x6	46.00	2.30

White Pine Flooring 18 and 20 feet, **$2.00** more per 1,000 feet. Specified length, **$1.00** more per 1,000 feet.

FIR FLOORING.



Tongue and Grooved, Surfaced and Dressed to Standard measure. Lengths, 6 to 20 feet.

GRADE	SIZE	Price per 1,000 Feet	Price per 100 Lineal Feet
Clear, plain sawed	1 x4	$37.00	$1.24
Clear quarter-sawed	1 x4	48.00	1.60
Clear quarter-sawed	1¼x4	50.00	2.10

SPRUCE AND CYPRESS FLOORING.

Spruce and cypress flooring carried in stock. Write for special delivered prices.

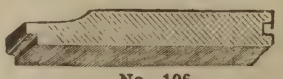
SPRUCE, FIR AND CYPRESS DROP SIDING.

Drop Siding furnished in any of the above woods, any style. Lengths 8 to 20 feet. Write for special delivered prices.

DROP SIDING OR NOVELTY SIDING OR GERMAN SIDING.

No. 104.

No. 113.



No. 106.

No. 117.

Manufactured from 1x6 or 1x8, selected kiln dried stock. Lengths, 8 to 20 feet. Arkansas Soft Pine or Short Leaf Southern Pine.

GRADE	WIDTH	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
No. 2	1x6	$20.00	$1.00
No. 2	1x8	22.00	1.50
No. 1	1x6	24.00	1.20
No. 1	1x8	24.00	1.60
Select	1x6	26.00	1.30
Clear	1x6	30.00	1.50

Specified lengths **$1.00** more per 1,000 feet. Furnish any of the above patterns or styles. Can furnish any other style at **$1.75** more per 1,000 feet. Be sure to give number of style wanted when you send your order.

WHITE PINE DROP SIDING.

Dressed and worked to any of the above patterns from Dry Shed Stock, carefully selected. Lengths, 8 to 16 feet.

GRADE	WIDTH	Price per 1,000 Feet. B. M.	Price per 100 Lineal Feet
No. 2	1x4	$ 26.00	$ 0.90
No. 2	1x6	33.00	1.65
No. 2	1x8	32.00	2.15
No. 1	1x4	30.00	1.00
No. 1	1x6	35.00	1.75
No. 1	1x8	34.00	2.90
D Select	1x4	36.00	1.20
D Select	1x6	39.00	1.95
D Select	1x8	37.00	2.50

18 and 20 feet white pine drop siding **$1.00** more per 1,000 feet. Specified lengths **$1.00** more per 1,000 feet. Any other pattern or style, except above **$1.75** more per 1,000 feet.

CEILING AND WAINSCOATING.

Southern Pine, Yellow Pine, Arkansas Soft Pine. Tongued, grooved and beaded. All kiln dried, clean stock.

GRADE	SIZE	Price per 1,000 feet B. M.	Price per 100 Lineal Feet
Clear	⅜x4	$22.00	$ 0.75
No. 1	⅜x4	17.00	.60
Clear	½x4	24.00	.80
No. 1	½x4	20.00	.70
No. 2	½x4	15.00	.50
Clear	⅝x4	25.00	.85
No. 1	⅝x4	21.00	.70
No. 2	⅝x4	16.00	.55
Clear	¾x4	28.00	.95
No. 1	¾x4	24.00	.80
No. 2	¾x4	20.00	.70
Clear	¾x6	30.00	1.50
No. 1	¾x6	25.00	1.25
No. 2	¾x6	21.00	1.05

WHITE PINE CEILING.

Dressed, Matched and Beaded.

GRADE	SIZE	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
C	⅜x4	$45.00	$1.50
Select No. 1	⅜x4	30.00	1.00
No. 2	⅜x4	25.00	.85
Select No. 1	¾x6	36.00	1.80
No. 2	¾x6	32.00	1.60

All ceiling sold random lengths, 8 to 16 feet. Any specified length **$1.00** more per 1,000 feet.

PARTITION

Dressed, Matched and Beaded, both sides. Furnished in any specified length from 8 to 20 feet.

KIND	SIZE	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
Clear Yellow Pine	⅜x4	$30.00	$1.00
No. 1 Yellow Pine	⅜x4	25.00	.85
No. 2 Yellow Pine	⅜x4	20.00	.70
Clear Yellow Pine	¾x6	30.00	1.50
No. 1 Yellow Pine	¾x6	25.00	1.30
No. 2 Yellow Pine	¾x6	23.00	1 15
Select No. 1 White Pine	⅜x4	30.00	1.00
No. 2 White Pine	⅜x4	25.00	.85
Select No. 1 White Pine	¾x6	36.00	1.80
No. 2 White Pine	¾x6	32.00	1.60

HARDWOOD FLOORING

45c

Per 100 Lineal Feet.

HIGH GRADE STEEL POLISHED HARDWOOL FLOORING. The Best Flooring Made.
Our Hardwood Flooring is manufactured from superior kiln dried stock, with the most modern machinery, scientifically treated and properly cured. All select and clear stock, carefully tongued and grooved, end matched.

Seven-eighth inch stock is hollow backed and bored for blind nailing.

Three-eighth inch flooring is sold by the 100 lineal feet; 8 lineal feet of 1½ inch face flooring will cover one square foot. Therefore to find out the number of lineal feet you need to cover your floor, multiply the number of square feet to be covered by 8.

NO ORDERS ACCEPTED for material on this page amounting to less than $10.00 for the reason, in shipping small quantities by local freight, it is necessary to bundle and mark all pieces.

MAPLE FLOORING.

GRADE	THICKNESS	WIDTH OF FACE	Price per 100 Lineal Feet	Price per 1,000 Feet B. M.
Select	3-8	1½ inch	$0.50	
Clear	3-8	1½ inch	.60	
No. 1	7-8	2¼ inch	.65	$26.00
Select	7-8	2¼ inch	.95	37.00
Clear	7-8	2¼ inch	1.10	43.00

CLEAR QUARTER SAWED OAK FLOORING.

Clear ¼ sawed Red Oak	3-8	1½ inch	$1.10	
Clear ¼ sawed Red Oak	7-8	2¼ inch	2.20	
Clear ¼ sawed White Oak	3-8	1½ inch	1.20	$87.00
Clear ¼ sawed White Oak	7-8	2¼ inch	2.40	95.00

PLAIN, RED OR WHITE OAK FLOORING.

Select	3-8	1½ inch	$0.65	
Clear	3-8	1½ inch	.80	
Select	7-8	2¼ inch	1.10	$43.00
Clear	7-8	2¼ inch	1.50	58.00

TABLE FOR FIGURING BOARD MEASURE

To find the number of feet, board measure, in any size piece of timber, refer to the proper size in inches in column headed "Size in Inches," and opposite in the column under the proper length in feet you will find the number of feet, board measure. For instance, one piece 2x8x18 feet long, refer to the size 2x8 and under the column 18 feet you will find the amount 24, which is the number of feet, board measure, in this piece.

Size in Inches	Length in Feet											
	10	12	14	16	18	20	22	24	26	28	30	32
	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.
1 x 4	3⅓	4	4⅔	5⅓	6	6⅔						
1 x 6	5	6	7	8	9	10						
1 x 8	6⅔	8	9⅓	10⅔	12	13⅓						
1 x10	8⅓	10	11⅔	13⅓	15	16⅔						
1 x12	10	12	14	16	18	20						
2 x 2	6⅔	8	9⅓	10⅔	12	13⅓	14⅔	16	17⅓	18⅔	20	21⅓
2 x 6	10	12	14	16	18	20	22	24	26	28	30	32
2 x 8	13⅓	16	18⅔	21⅓	24	26⅔	29⅓	32	34⅔	37⅓	40	42⅔
2 x10	16⅔	20	23⅓	26⅔	30	33⅓	36⅔	40	43⅓	46⅔	50	53⅓
2 x12	20	24	28	32	36	40	44	48	52	56	60	64
2 x14	23⅓	28	32⅔	37⅓	42	46⅔	51⅓	56	60⅔	65⅓	70	74⅔
2 x16	26⅔	32	37⅓	42⅔	48	53⅓	58⅔	64	69⅓	74⅔	80	85⅓
2½x12	25	30	35	40	45	50	55	60	65	70	75	80
2½x14	29⅛	35	40⅝	46⅔	52½	58⅓	64⅛	70	75⅝	81⅔	87½	93⅓
2½x16	33⅓	40	46⅔	53⅓	60	66⅔	73⅓	80	86⅔	93⅓	100	106⅔
3 x 6	15	18	21	24	27	30	33	36	39	42	45	48
3 x 8	20	24	28	32	36	40	44	48	52	56	60	64
3 x10	25	30	35	40	45	50	55	60	65	70	75	80
3 x12	30	36	42	48	54	60	66	72	78	84	90	96
3 x14	35	42	49	56	63	70	77	84	91	98	105	112
3 x16	40	48	56	64	72	80	88	96	104	112	120	128
4 x 4	13⅓	16	18⅔	21⅓	24	26⅔	29⅓	32	34⅔	37⅓	40	42⅔
4 x 6	20	24	28	32	36	40	44	48	52	56	60	64
4 x 8	26⅔	32	37⅓	42⅔	48	53⅓	58⅔	64	69⅓	74⅔	80	85⅓
4 x10	33⅓	40	46⅔	53⅓	60	66⅔	73⅓	80	86⅔	93⅓	100	106⅔
4 x12	40	48	56	64	72	80	88	96	104	112	120	128
4 x14	46⅔	56	65⅓	74⅔	84	93⅓	102⅔	112	121⅓	130⅔	140	149⅓
6 x 6	30	36	42	48	54	60	66	72	78	84	90	96
6 x 8	40	48	56	64	72	80	88	96	104	112	120	128
6 x10	50	60	70	80	90	100	110	120	130	140	150	160
6 x12	60	72	84	96	108	120	132	144	156	168	180	196
6 x14	70	84	98	112	126	140	154	168	182	196	210	224
6 x16	80	96	112	128	144	160	176	192	208	224	240	256
8 x 8	53⅓	64	74⅔	85⅓	96	106⅔	117⅓	128	138⅔	149⅓	160	170⅔
8 x10	66⅔	80	93⅓	106⅔	120	133⅓	146⅔	160	173⅓	186⅔	200	213⅓
8 x12	80	96	112	128	144	160	176	192	208	224	240	256
8 x14	93⅓	112	130⅔	149⅓	168	186⅔	205⅓	224	242⅔	261⅓	280	298⅔
10 x10	83⅓	100	116⅔	133⅓	150	166⅔	183⅓	200	216⅔	233⅓	250	266⅔
10 x12	100	120	140	160	180	200	220	240	260	280	300	320
10 x14	116⅔	140	163⅓	186⅔	210	233⅓	256⅔	280	303⅓	326⅔	350	373⅓
10 x16	133⅓	160	186⅔	213⅓	240	266⅔	293⅓	320	346⅔	373⅓	400	426⅔
12 x12	120	144	168	192	216	240	264	288	312	336	360	384
12 x14	140	168	196	224	252	280	308	336	364	392	420	448
12 x16	160	192	224	256	288	320	352	384	416	448	480	512
14 x14	163⅓	196	228⅔	261⅓	294	326⅔	359⅓	392	424⅔	457⅓	490	522⅔
14 x16	186⅔	224	261⅓	298⅔	336	373⅓	410⅔	448	485⅓	522⅔	560	597⅓

APPROXIMATE WEIGHT OF LUMBER. A carload of lumber consists of from ten to fifteen thousand feet. [See first page of prices.] The minimum weight of a carload is usually 30,000 to 34,000 lbs. It requires about 12,000 to 15,000 feet to make a carload. We can, however, load up to 25,000 feet on a single car, or we can include additional material of same classification up to about 80,000 pounds. The above table will enable you to estimate how many feet of lumber you will need in making up the weight of a minimum car.

WEIGHT OF DOORS AND SASH.—In estimating weight of doors we can only give you an approximate idea. 1⅜ inch doors of average size, 17 to 24 lbs. each. 1¼ inch doors from 22 to 23 lbs. 1¾ inch doors from 33 to 40 lbs.

Windows glazed weigh from 12 to 40 lbs. each. This is for average weight window. However, when you furnish us a list of exact material you require, we will estimate the freight for you, and tell you just how much the material will cost you laid down at your home station.

MILL WORK DEPARTMENT

OUR PRICES THE LOWEST

WHY?

THE CHICAGO HOUSE WRECKING COMPANY is in a position to give you the lowest prices of any establishment on earth on all kinds of brand new mill work of every description. In addition to buying our material in the regular way in immense quantities, we also buy large quantities of standard stock material at various forced sales, receivers' sales, etc., and can therefore, offer to the public material of the very best quality at prices that are far lower than those that can possibly be made by any competitor. All material is absolutely guaranteed in every instance to be exactly as represented and up to the grade specified in every particular.

OUR LINE

SPACE will not permit the reproduction of the hundreds of thousands of articles that we handle and can furnish. Our line is made up of everything in the standard stock of lumber and mill work consisting of doors, windows, casings, base, frames, mouldings, stairway and porch materials, grills, floorings, art glass, mantels, consoles, blinds, and everything and anything pertaining to any kind of a finish job, whether it be a five dollar or a fifty thousand dollar job.

QUALITY

ONLY standard grades are handled by us. Our material is sold under these standardizations and the customer assumes no risk whatever in purchasing from us. Our binding guarantee that material must be strictly as represented in every respect is sufficient to give absolute protection to any customer who may be inclined to doubt the quality that we are offering. Of course, it is our aim and endeavor, in every instance, to give the customer absolutely the most that we can possibly give him for his money. Our mills are the largest in the United States, the best equipped and our superior purchasing facilities in other directions enable us to make prices that are positively the very lowest, quality considered.

COMPARISON

WE are pleased to have our mill work compared with any manufactured in the United States or elsewhere. It is our aim to furnish the best material that can possibly be furnished for the various purposes for which it is used, furnishing only such mill work that is manufactured from well air seasoned, thoroughly kiln-dried lumber. All the joints are glued with imported glue pressed together by a tremendous steam power press, sand papered and finished with special care and we invite comparison of any kind of the material we furnish with that furnished by any other dealer, same class and price considered.

OUR BUSINESS

OUR mill work business has jumped by leaps and bounds in the short space of two years to where it is practically one of the largest in the United States today. This tremendous increase we credit solely to our exceptional quality, prompt shipment and extremely low prices. It would be impossible to build up the tremendous business we have in this particular line in this short period of time through any other channel.

SEND US YOUR LIST

IT will be well for you to send in a complete list of your requirements in mill work as we frequently have on hand standard stocks that come to us through special sales as outlined above, which we can figure in our quotation to you at still lower prices. However, if you have neither the time nor inclination to do this, you can make up your order direct from our catalog with perfect safety and rest assured that you will get just exactly what our catalog quotes.

MILL WORK—General Information

DELIVERED PRICES AT YOUR STATION

ALL prices in this catalog are F. O. B. cars Chicago. We will name you delivered prices on any lumber or mill work that you may wish. These prices will be laid down, F. O. B. cars your station, free of all freight charges and safe delivery guaranteed. Should any material be received in a damaged condition, all that is necessary is to have a notation made on the freight receipt by the agent and this freight receipt forwarded to us and the matter will be immediately adjusted to your satisfaction. However, the matter of freight charges is a very small one and need not worry you in the least. You can get just as low a freight rate as we can, as the Inter-State Commerce Commission's rules and regulations covering this subject are very clear, and the penalty very severe and no railroad would dare to discriminate. Should you purchase from us without getting a delivered price first and it would appear to you that there is something wrong with your freight charges, we have a competent and well informed Traffic Department who will investigate this matter for you at once and give you full report without any charge. No other establishment offers you such inducements and protection.

A TRIAL ORDER

A trial order will convince you that we have the goods just as good and frequently very much better than those that are shown you in your local dealers' yards or office and the price at which you will purchase them from us will be from fifteen to fifty per cent lower than they can furnish them. All we ask is a trial order. All goods are safely and securely packed so as to reach destination in the very best of condition and from actual facts and figures we find that the percentage of breakages is so small as to be unworthy of any consideration whatever.

SHIPPING FACILITIES

OUR shipping facilities are unsurpassed. In the first place, we have a large number of railroad tracks right in our yards here in Chicago where we can load from thirty-five to fifty carloads of lumber, mill work and miscellaneous material per day. In addition to that, our Western factory is located in Iowa and enjoys the very best freight rates for the Central, Northern, South-western and Western sections of the United States. This is the largest mill work factory in existence, and can handle an order from a single item to tens of thousands and can handle it with the quickest dispatch possible.

SIZES

IT is needless to remind you that if you specify standard sizes as shown in our catalog, you get the best material at the lowest price in the shortest possible time. Nearly every requirement can be filled from standard or stock size material. It not only means the greatest economy for the time being but also economy and ease of making future repairs or additions and ease of maintaining a continual uniformity regardless of when such improvements or additions may be made. In other words, order your sash and cut the hole to fit it. Do not cut the hole and then have the sash made to fit the hole. This is extremely expensive and of hardly any benefit to anyone except the local yard, which charges about four prices for such work.

ORDERS

IN making out your order, please write only on one side of the paper. In order to sell material at low prices, we must economize in every direction. An order clearly and neatly written means a saving of error as well as of time and labor and is always an advantage to the purchaser.

RUSH ORDERS

SPECIAL attention will be paid to customers who must have their material shipped at once. Mention the date upon which you wish them and unless the material has to be made up of special stock, we will do our level best to see that the material is shipped in the time specified by you as we gain absolutely nothing by delaying your order a moment longer than is necessrry or a moment longer than it is desired by you and we gain a whole lot by shipping you your order when you want it, and therefore, we are anxious at all times to do the very best we can for you.

SPECIAL TO CONTRACTORS, CARPENTERS AND BUILDERS

WE solicit a thorough comparison of our prices and qualities by you who are thoroughly posted on values and prices. We have among our customers many contractors, builders and carpenters who purchase their own material and we aim to help such customers in every possible manner to transact their business with the least possible worry, trouble or delay of any kind and all we want is a trial order to prove this.

INDEPENDENT

WE do not belong to any association, any trust, any combine, any affiliation, have no understanding of any kind with any of the above named and are absolutely independent. We have no agents or representatives and any person saying anything to the contrary is either misinformed or is deliberately falsifying facts. We deal direct with the consumer and give him the benefit of every possible saving that can be made and all commissions, association percentages, and trust royalties have been squeezed out of our prices and the result is the lowest possible price of material, quality considered, that is on the market today.

SPECIAL WORK

WE are in position to turn out any kind of special work and furnish you any size, any quantity or any quality or any kind of special mill work manufactured in any kind of wood and will at any time be pleased to furnish you an estimate, naming you delivered prices, under the condition that you furnish us a list showing just what you will require so that we will have definite information to figure from and can base our figures right down to rock bottom.

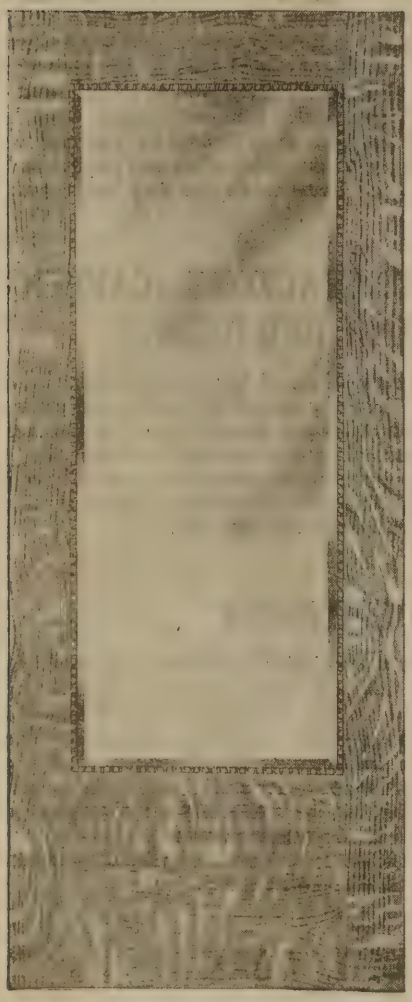
HOW TO ORDER

IN making out your order, use our order blank if you have one. We will furnish you any number of them and self-addressed envelopes free of charge. Please write only on one side of the paper. Use our catalog number wherever you possibly can, or give full description. Frequently a minute's careful study of our catalog will not only be the means of saving you money, but also save you and ourselves much valuable time and possible worry.

It is a simple matter to order mill work by mail. Any child can do it. Take our catalog, study your wants and our offerings, use our catalog and item numbers wherever possible and make your shipping instructions clear. If there is something in the line of mill work you want that is not described in our catalog, tell us about it. We will quote you by letter on same.

HARDWOOD FRONT DOORS

VENEERED RED OAK, 1¾ INCHES THICK.



American Beauty

$5.98

Glazed with Double Strength "A" Quality Glass,

$9.15

Glazed Best Plate with Wide Bevel

"First Impressions are Most Lasting."

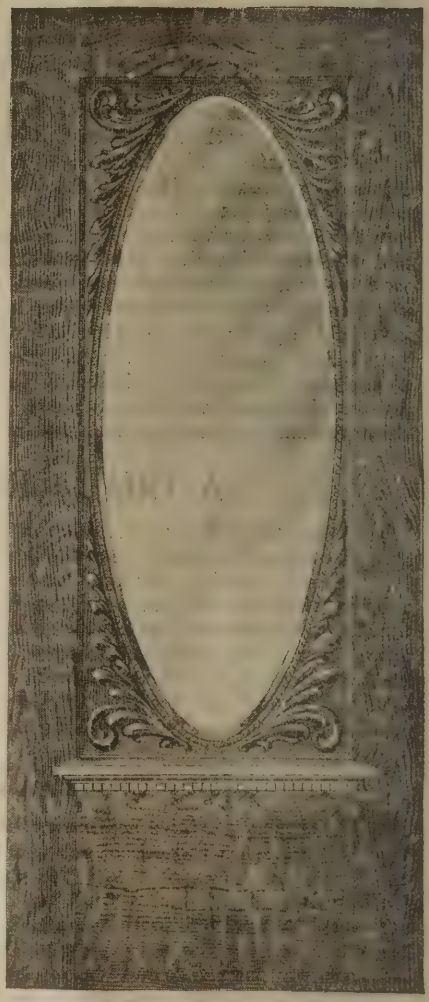
A Beautiful Front Door Creates a Good Impression.

All our Hardwood Veneered Doors represent the highest type of modern door making, and the exceptionally low prices on our "American Beauty" and "Morning Glory" Hardwood Veneered Doors is only another illustration of this Company's progressiveness. No other concern ever dared to place such low prices on these doors. The workmanship is all anybody could wish, and when others are offering doors of this character at a bargain price, we consider this represents a better bargain price. By the use of our high-grade front doors you will not only enhance the beauty of the home but increase the value of your property many fold. If doors are properly handled when received and taken care of, they will practically outlast any ordinary building. Strong, durable, lasting.

Great care is taken in packing all our hardwood doors, so that they will reach you in perfect condition, fresh from our planing mills.

No one could possibly use a better grade of ingredients for the veneering process. No one could possibly expend more time on their manufacture, and when we say that we are offering you a strictly modern, high-grade door at a low price, you know that you are receiving the benefit of a bargain price.

We guarantee these doors to be exactly as described and of better stock, finish and appearance than you can buy anywhere else for the prices quoted here.



Morning Glory

$10.50

Glazed with Double Strength "A" Quality Glass,

$13.80

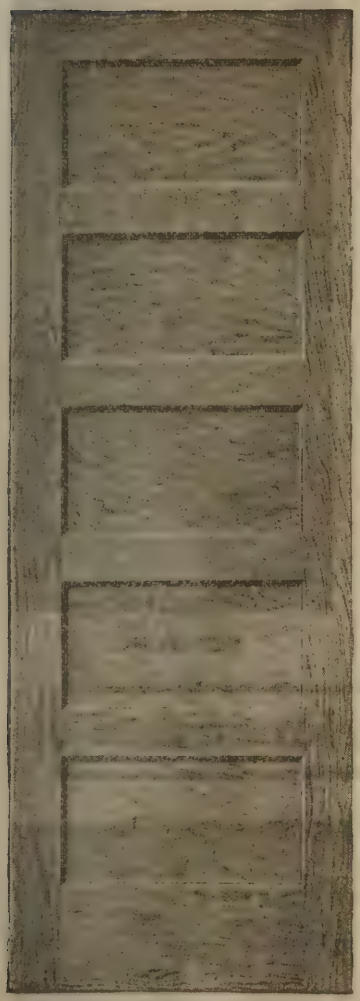
Glazed Best Plate with Wide Bevel

VENEERED RED OAK, 1¾ INCHES THICK.

AMERICAN BEAUTY.			SIZES OF DOORS.	MORNING GLORY.		
No. 10-A-1. Glazed Plain D. S. A. Glass.	No. 10-A-2. Glazed Sand Blast Glass.	No. 10-A-3. Glazed Clear Beveled Plate.		No. 10-A-4. Glazed Plain D. S. A. Glass.	No. 10-A-5. Glazed Sand Blast Glass.	No. 10-A-6. Glazed Clear Beveled Glass.
$5.98	$6.65	$ 9.15	2'8"x6'8"	$10.50	$11.40	$13.80
6.45	7.10	11.10	2'10"x6'10"	10.55	11.50	14.60
6.40	7.00	10.50	2'8"x7'0"	10.80	11.70	14.60
6.75	7.25	11.70	3'0"x7'0"	11.10	11.80	15.60

Veneered Hardwood Panel Doors

The Best Made



ROSELAND

This beautiful cross panel door in veneered Birch, size 2'6"x6'6", each..... **$2.50**

On this page we show two of the most popular designs of hardwood veneered doors. These doors are veneered either in oak or birch, the veneers being made by the famous improved rotary cut process instead of the regular saw cut veneers, giving a much more beautiful appearance to the grain of the wood and therefore makes the door more valuable.

Only the highest grade of workmanship enters into the construction of these doors and they are suitable for the finest buildings. It is a well known fact that a good hardwood veneered door is far superior to a solid hardwood door, both as to lasting qualities and remaining true in the frame, for the reason that the woods between the veneer are so placed that the grains run in different directions, one grain counteracting the other and thus taking care of both contraction and expansion. Being exceptionally well finished and beautifully grained, they will permit of a finish in a great variety of ways, either by staining or filling or finishing in natural wood.

There are no better doors of this class made. On account of the beautiful grain, they can be finished to imitate any number of woods such as mahogany, cherry, walnut, mission oak, weathered oak, or natural birch. The birch doors are especially suitable for finish in the various white paints such as enamel or egg shell finish or plain ordinary white finish and you will be agreeably surprised at the good finish and appearance.

Prices we are naming is lower than you can buy anywhere else. The doors are crated and packed securely and we guarantee them to reach you in the same perfect condition that they leave the factory. We can make prompt shipment in any quantity and you can rest assured that the article is the best value on the market.

ELITE

This handsome 2-panel veneered Birch door, size 2'6"x6'6"..... **$2.85**

ROSELAND Sizes		No. 10-A-7	No. 10-A-8	ELITE Sizes		No. 10-A-9	No. 10-A-10
Width Ft. In. Height Ft. In.	Thickness Inches	Veneered Plain Red Oak	Veneered Unselected Birch	Width Ft. In. Height Ft. In.	Thickness Inches	Veneered Plain Red Oak	Veneered Unselected Birch
2.0 x 6.0	1⅜	$3.40	$2.50	2.0 x 6.0	1⅜	$3.72	$2.85
2.0 x 6.6	"	3.40	2.50	2.0 x 6.6	"	3.72	2.85
2.6 x 6.6	"	3.40	2.65	2.6 x 6.6	"	3.72	2.85
2.0 x 6.8	"	3.45	2.70	2.0 x 6.8	"	3.84	2.96
2.6 x 6.8	"	3.50	2.80	2.6 x 6.8	"	3.84	2.96
2.8 x 6.8	"	3.50	2.85	2.8 x 6.8	"	3.84	2.96
2.10 x 6.10	"	4.10	3.20	2.10 x 6.10	"	4.44	3.45
2.6 x 7.0	"	4.10	3.10	2.6 x 7.0	"	4.44	3.45
2.8 x 7.0	"	4.30	3.15	2.8 x 7.0	"	4.58	3.56
3.10 x 7.0	"	4.40	3.40	3.0 x 7.0	"	4.89	3.76
2.6 x 7.0	1¾	4.60	3.65	2.6 x 7.0	1¾	4.92	3.97
3.0 x 7.0	"	4.90	4.00	3.0 x 7.0	"	5.29	4.21

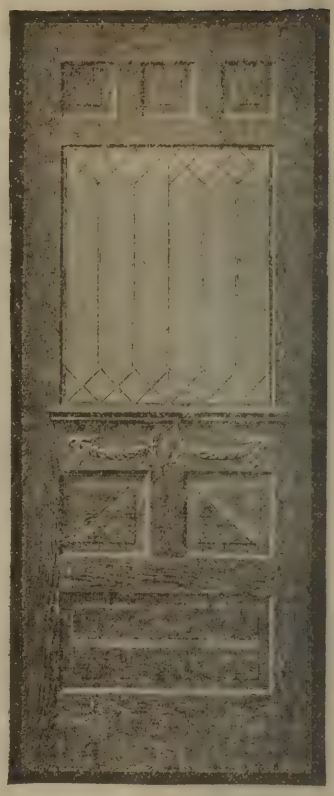
ORCHID

SOFT PINE FRONT DOORS, DOUBLE "AA" QUALITY SOFT PINE, STRICTLY FIRST CLASS

Our Orchid and Geranium designs are two of the handsomest doors that are popularly called for on the market to-day. Beautiful leaded art glass, the finest and best workmanship that can be produced, which gives these doors a wonderfully artistic and rich effect. Any home owner could be proud of his home if a door of either of these designs graced his house, and at the exceptionally low prices that we are making on these particular designs it will be worth your while to investigate the merits of this class of doors before you make your purchase. Up to a few years ago it was only the millionaire who was supposed to have art glass windows and doors in his house; but our price enables every one to have at least a few. Although we offer these doors at extremely low prices, you can depend upon the quality as being the best.

ORCHID		GERANIUM	
No. 10-A-11 Glass Leaded Colored Art		No. 10-A-12 Glass Leaded D. S. Crystal	
2′6″x6′6″	$5.40	2′6″x6′6″	$4.65
2′8″x6′8″	5.50	2′8″x6′8″	4.75
2′10″x6′10″	6.40	2′10″x6′10″	5.50
2′8″x7′0″	6.40	2′8″x7′0″	5.50
3′0″x7′0″	7.20	3′0″x7′0″	6.00

Above Doors 1⅜″ for Doors 1¾″ Thick, add $1.15.



GERANIUM

All Our Mill Work Is of the Best Workmanship

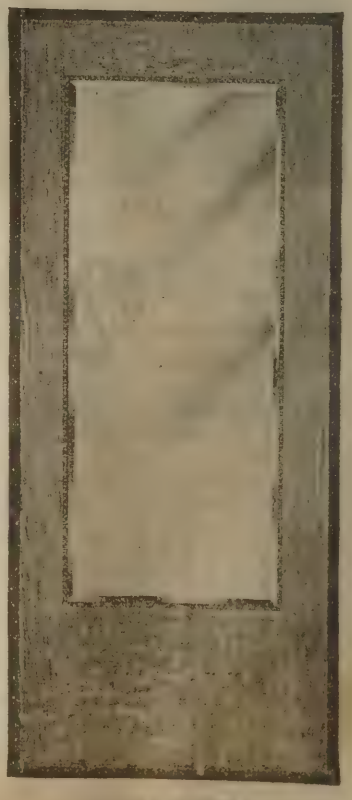
ORANGE BLOSSOMS

SOFT PINE FRONT DOORS, DOUBLE "AA" QUALITY SOFT PINE, STRICTLY FIRST CLASS

Our soft pine doors cannot be equaled for durability. No other soft wood is more susceptible to the workman's tool, nor contains more weather defying qualities. All of our first quality front doors are especially prepared for oil finishing purposes, and when you purchase any of our doors you will know that they are ready for the finisher. The two modern designs offered on this page are adaptable for many purposes—a fitting ornament for the higher priced residence and will not look out of place in the smaller cottage. We especially recommend them for vestibule purposes. The plate glass, an unusual wide bevel, is of crystal clearness, rivaling the finest French or German plate-maker's art.

ORANGE BLOSSOM		Size	HONEY SUCKLE	
No. 10-A-13 Plain Double A Glass	No. 10-A-14 Glass Clear Bev. Plate	1⅜ Thick	No. 10-A-15 Plain Double A Glass	No. 10-A 16 Glass Clear Bev. Plate
$7.00	$11.80	2′8″x6′8″	$3.60	$ 8.10
7.60	13.10	2′10″x6′10″	4.20	9.30
7.70	12.90	2′8″x7′0″	4.30	9.00
8.10	14.30	3′0″x7′0″	4.65	10.20

Above Doors 1⅜″ Thick for Doors 1¾″ Thick, add $1.25.



HONEY SUCKLE

GOLDENROD.

SOFT PINE FRONT DOORS. DOUBLE "AA" QUALITY, SOFT PINE, STRICTLY FIRST CLASS.

Here is another illustration of our high grade low priced doors. All strictly first quality, of the very latest pattern. Do not overlook the fact that all the material entering into our doors is thoroughly seasoned and manufactured in one of the best equipped plants on the continent. For this reason there is no chance whatever that any of our pine doors will open up or prove unsatisfactory.

No front door is permitted to leave the plant unless it is a strictly first class door. The beautiful lace design on our glass is etched thereon by the latest improved method and no other fancy glass, we are sure, will equal it at the price.

GOLDENROD			Size	MAGNOLIA		
No. 10-A-17 Plain Double A Glass	No. 10-A-18 Glass as Illustrated	No. 10-A-19 Glazed Bevel Plate	1¾" Thick	No. 10-A-20 Plain Double A Glass	No. 10-A-21 Glass as Illustrated	No. 10-A-22 Glazed Bevel Plate
$4.60	$4.80	$ 6.60	2'6"x6'6"	$3.75	$4.15	$6.50
4.85	5.10	6.90	2'8"x6 8"	3.90	4.35	6.75
5.40	5.80	8.40	2'10"x6'10"	4.45	4.85	8.30
5.45	5.85	8.45	2'8"x7'0	4.60	5.00	8.50
5.75	6.10	10.20	3'0 x7'0	4.70	5.15	9.85

For Doors 1¾" Thick add $1.25

MAGNOLIA.

These Are Exceptionally Good Bargains for the Money

HOLLY.

SOFT PINE FRONT DOORS, DOUBLE "AA" QUALITY, SOFT PINE, STRICTLY FIRST CLASS.

Here we offer two more popular designs, strictly "A" quality soft pine grade for grade, kind for kind. These doors represent an exceptionally high value, and price is a bargain. These doors are all wood, no composition work of any kind. Glass designs first class and true to detail.

HOLLY		Size	MISTLETOE	
No. 10-A-23 Plain Double A Glass	No. 10-A-24 Glass as Illustrated	1¾" Thick	No. 10-A-25 Plain Double A Glass	No. 10-A-26 Glass as Illustrated
$3.20	$3.30	2'6"x6'6"	$3.50	$3.90
3.30	3.40	2'8"x6'8"	3.65	4.00
3.90	4.05	2'10"x6'10"	4.05	4.40
3.95	4.10	2'8"x7'0	4.10	4.45
4.20	4.40	3'0 x7'0	4.20	4.65

For Doors 1¾" Thick add $1.50.

MISTLETOE.

SUNFLOWER

SOFT PINE FRONT DOORS, DOUBLE "AA" QUALITY, SOFT PINE, STRICTLY FIRST CLASS

Here we offer you another example of our high quality and low prices. The material is "A" quality soft pine, just the same as is used in doors three to four times the cost. We guarantee the quality, finish and workmanship as the best, in fact, these doors are the finest of their respective kind on the market. All ornaments are solid wood carvings; we use no composition trimmings.

SUNFLOWER		Size	PEONY	
No. 10-A-28 Plain Double A Glass	No. 10-A-29 Glass as Illustrated	1¾" Thick	No. 10-A-30 Plain Double A Glass	No. 10-A-31 Glass as Illustrated
$3.30	$3.70	2'6"x6'6"	$3.70	$4.25
3.45	3.80	2'8"x6'8"	3.90	4.40
3.90	4.25	2'10"x6'10"	4.35	4.90
4.00	4.30	2'8"x7'0"	4.50	5.00
4.25	4.50	3'0"x7'0"	4.80	5.25

For Doors 1¾" Thick add $1.50.

PEONY

PUT A NEW FRONT DOOR IN YOUR OLD HOUSE AND SEE THE DIFFERENCE

MIGNONETTE

SOFT PINE FRONT DOORS, DOUBLE "AA" QUALITY, SOFT PINE, STRICTLY FIRST CLASS

These patterns are especially adapted for cottages, being neat and substantial in appearance and offered at a price within the reach of all. The glass illustrations are true to every detail, and when you order the plain glass from us you will know that you will get strictly double strength "A." They are without question the finest strictly "A" quality doors ever offered at such extremely low prices.

MIGNONETTE		Size	FORGET-ME-NOT	
No. 10-A-32 Plain Double A Glass	No. 10-A-33 Glass as Illustrated	1¾" Thick	No. 10-A-34 Plain Double A Glass	No. 10-A-35 Glass as Illustrated
$3.00	$3.30	2'6"x6'6"	$3.10	$3.30
3.20	3.50	2'8"x6'8"	3.30	3.50
3.70	4.00	2'10"x6'10"	3.75	4.00
3.90	4.10	2'8"x7'0"	4.00	4.20
4.10	4.20	3'0"x7'0"	4.15	4.35

For Doors 1¾" Thick add $1.50.

FORGET-ME-NOT

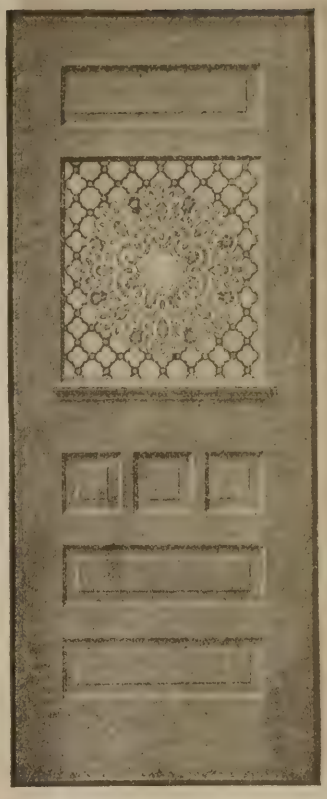
VIOLET

SOFT PINE FRONT DOORS, DOUBLE "AA" QUALITY, SOFT PINE STRICTLY FIRST CLASS

Here we are offering you brand new designs just as appropriate as they can be, material "A" quality soft pine, workmanship the very best, glass as neat and pretty a design as can be had anywhere, and all in all it would be a hard matter to make a selection of one against the other. All that is necessary to make a decision is a matter of taste. One is just as good as the other, and in their class there are none on the market that are any better.

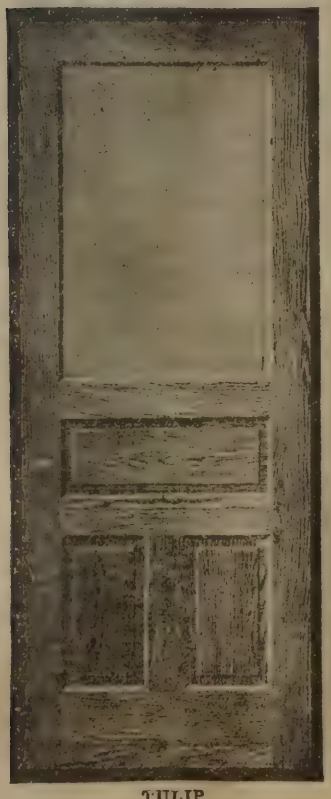
VIOLET		Size	SMILAX	
No. 10-A-36 Plain Double A Glass	No. 10-A-37 Glass as Illustrated	1¾ Thick	No. 10-A-38 Plain Double A Glass	No. 10-A-39 Glass as Illustrated
$2.80	$3.00	2′6″x6′6″	$2.90	$3.30
2.95	3.10	2′8″x6′8″	3.00	3.50
3.45	3.65	2′10″x6′10″	3.50	4.00
3.50	3.70	2′8″x7′0″	3.60	4.05
3.90	4.00	3′0″x7′0″	3.90	4.35

For Doors 1¾ Thick add $1.50.



SMILAX

Best Kiln Dried and Selected Lumber Used in Our Doors



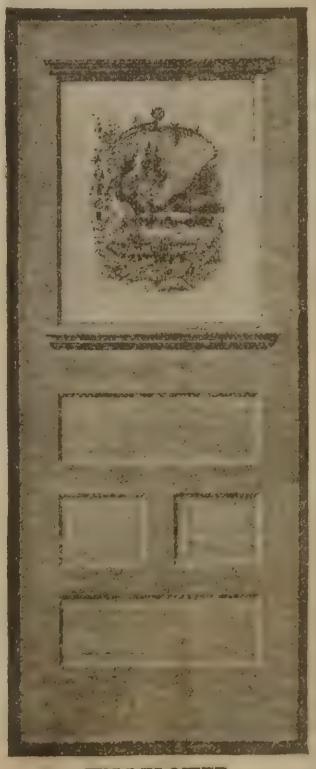
TULIP

SOFT PINE FRONT DOORS, DOUBLE "AA" QUALITY, SOFT PINE STRICTLY FIRST CLASS

Our "Tulip" and "Wildflower" designs are two as popular designs as are on the market for moderate priced front doors. We will back them against any door on the market for durability, workmanship and finish. Soft pine is easily worked, and there is no other material for such purposes that is better and more weather defying in quality.

TULIP		Size	WILDFLOWER	
No. 10-A-40 Plain Double A Glass	No. 10-A-41 Glass as Illustrated	1¾ Thick	No. 10-A-42 Plain Double A Glass	No. 10-A-43 Glass as Illustrated
$2.75	$2.90	2′6″x6′6″	$3.00	$3.25
2.90	3.05	2′8″x6′8″	3.20	3.35
3.45	3.55	2′10″x6′10″	3.70	3.90
3.50	3.70	2′8″x7′0″	3.75	3.95
3.80	4.00	3′0″x7′0″	4.00	4.20

For Doors 1¾ Thick add $1.50.



WILDFLOWER

DAISY (Painted)

PAINTED AND GRAINED DOORS GLAZED IN SAND BLAST DESIGNS

Without question these doors are not only the lowest priced, painted and grained front doors on the market, but they are the best possible value for the prices as well. The glass in these doors is of the same superior quality as our higher priced doors, same care being taken in their glazing and packing for shipment, in fact when you order these doors from us you get all the value, with the high price squeezed out.

DAISY			PANSY	
No. 10-A-44 Plain Double A Glass	No. 10-A-45 Glass as Illustrated	Size $1\frac{3}{8}$ Thick	No. 10-A-46 Plain Double A Glass	No. 10-A-47 Glass as Illustrated
$2.10	$2.25	2'6"x6'6"	$2.20	$2.35
2.20	2.30	2'8"x6'8"	2.25	2.40
2.40	2.55	2'10"x6'10	2.50	2.65
2.40	2.55	2'8"x7'0"	2.50	2.65
2.80	2.95	3'0"x7'0"	2.90	3.05

PANSY (Grained)

Prices 25 to 50 per cent Lower than Local Dealers

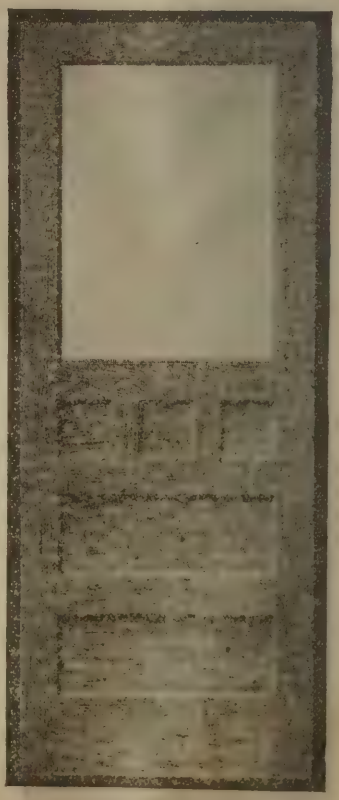
PRIMROSE

Redwood Front Doors

Here we are offering something entirely new in front doors at almost as low a price as the commonest panel doors without glass. Here you have a door that will take oil finish as well as the finest hardwood door. We are sure no one ever offered you anything that could be oil finished anywhere near this price.

We especially recommend them to the economical buyer who must keep within certain bounds, to use them for outside purposes, and by using our low priced, painted and grained doors for the inside portion of the house you have a money saving combination that cannot be beat.

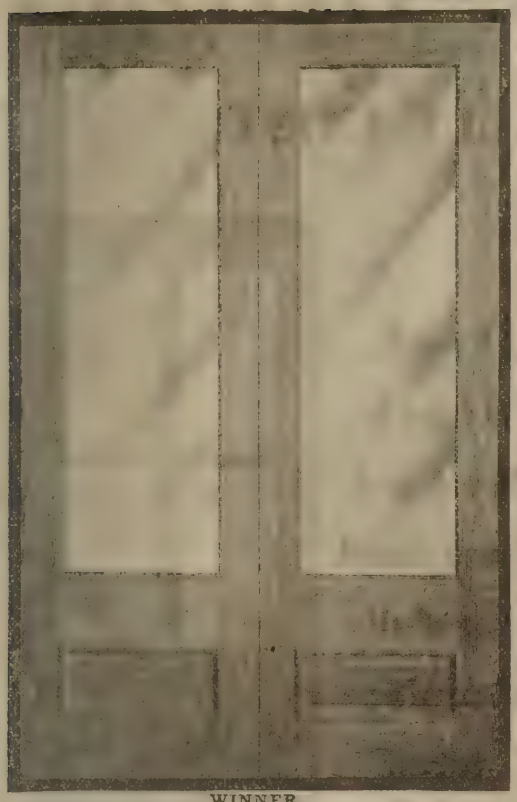
PRIMROSE.		CARNATION.	
No. 10-A-48 Glass as Illustrated		No. 10-A-49 Glass, Plain, D. S. A.	
Size	$1\frac{3}{8}$" Thick	Size	$1\frac{3}{8}$" Thick
2'6"x6'6"	$2.60	2'6"x6'6"	$2.35
2'8"x6'8"	2.70	2'8"x6'8"	2.50
2'10"x6'10"	3.35	2'10"x6'10"	3.20
2'8"x7'0"	3.35	2'8"x7'0"	3.20
3'0"x7'0"	3.50	3'0"x7'0"	3.35



CARNATION

Modern Store Doors or Vestibule Doors

Made of Best Quality Soft Pine



WINNER

We cannot say too much in favor of the strength and high-grade quality of our modern store doors as illustrated on this page. While the general style and size submitted are primarily intended for store front purposes, they are entirely suitable for front and vestibule doors. In fact we might say they are considered even stronger than most of the front doors now put on the market, for the same thickness and grade of material used. We especially recommend our "Winner" design for this very same purpose. We offer this door in two kinds of glass, both double strength A and brand new plate.

WINNER.

1¾-INCH THICK.	PER PAIR GLAZED D. A. GLASS No. 10-A-50.	PER PAIR GLAZED PLATE GLASS No. 10-A-51.	SIZE OF GLASS.
5′-0″x7′-0″	$11.25	$18.00	20 x 50
5′-0″x7′-6″	12.00	20.00	20 x 56
5′-0″x8′-0″	12.60	23.50	20 x 62
5′-4″x7′-0″	12.60	20.25	22 x 50
5′-4″x7′-6″	12.80	21.65	22 x 56
5′-4″x8′-0″	13.25	23.00	22 x 62
6′-0″x7′-0″	13.20	28.00	26 x 50
6′-0″x7′-6″	13.80	28.40	26 x 56
6′-0″x8′-0″	15.00	29.00	26 x 62

Prices are for one pair of doors, as illustrated.

A Good Store Door at the Very Lowest Price

VESTIBULE DOORS

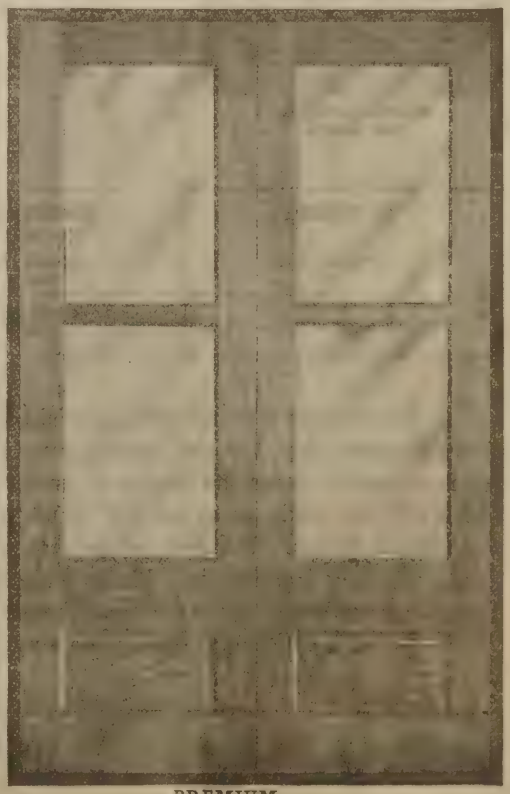
For a vestibule door, either single or in pairs, we highly recommend our "Winner." This is a door that will withstand weather conditions excellently—it is well manufactured, true and can be depended upon to keep its shape. Prices are for pairs; if one door only is required price will be just one-half.

PREMIUM.

1¾-INCH THICK.	PER PAIR GLAZED D. S. A. GLASS No. 10-A-52.	SIZE OF GLASS.
5′-0″x7′-0″	$ 9.75	20 x 24
5′-0″x7′-6″	10.80	20 x 27
5′-0″x8′-0″	10.85	20 x 30
5′-4″x7′-0″	10.80	22 x 24
5′-4″x7′-6″	10.85	22 x 27
5′-4″x8′-0″	11.30	22 x 30
6′-0″x7′-0″	11.15	26 x 24
6′-0″x7′-6″	12.00	26 x 27
6′-0″x8′-0″	12.70	26 x 30

SINGLE DOORS HALF PRICE.

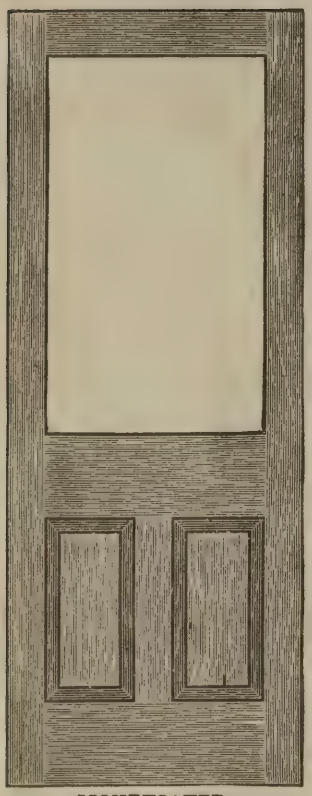
Prices are for one pair of doors, as illustrated.



PREMIUM

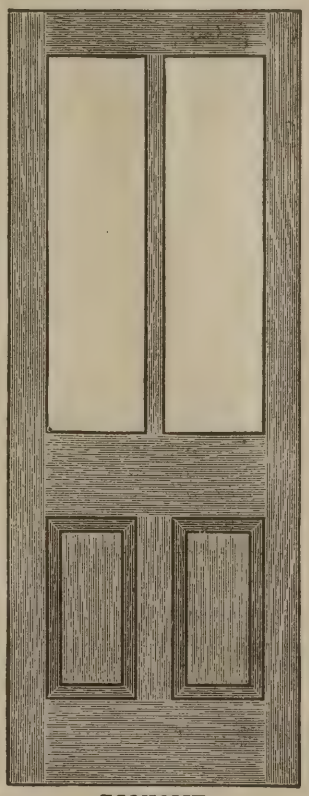
PAINTED SASH DOORS

SELLING AT PRACTICALLY COST



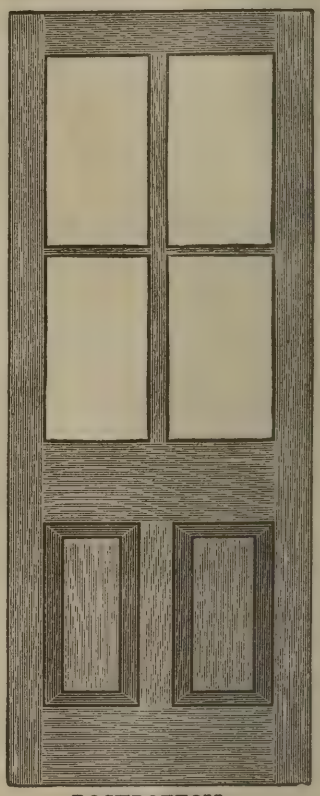
MONEYSAVER
One Light

The Best on the Market for the Money



ECONOMY
Two Lights

Fresh Stock Brand New and Carefully Manufactured for the Grade



ROCKBOTTOM
Four Lights

1¾ THICK Painted	MONEYSAVER No. 10-A-53. Glazed Plain One Large Light	ECONOMY No. 10-A-54. Glazed Plain Two Lights	ROCKBOTTOM No. 10-A-55. Glazed Plain Four Lights
2′-6″x6′-6″	$1.85	$1.80	$1.75
2′-8″x6′-8″	2.00	1.90	1.85

We are here offering three special bargains. They are not offered at rock bottom-money saving or economical prices in name only, but the bargain price is a reality in fact. While made of lower grade of lumber than used for our first quality doors the lumber is nevertheless strictly soft pine. As we must find some outlet for such lumber which will not grade up to our "A" Quality Doors, therefore we use it for the purpose of making these bargain doors at real bargain prices. None of the imperfections show on the surface, being fully and carefully covered with high grade paint and other ingredients. Please understand well that any imperfections will not in any way affect the strength or wearing quality of these doors and many users would prefer nothing else for lower priced building operations.

We wish to impress upon your mind the fact that they are strictly brand new, fresh from the machine.

Roofing: We have in stock at all times the very best line of Metal and Prepared Roofing Material at prices that are below all competition—see following pages.

No. 10-A-56.

Four Panel O. G. Doors

White Pine—Raised Panels Both Sides

ALL THESE DOORS STRICTLY BRAND NEW

Size	Thick Inches	A Price Quality	B Price Quality	C Price Quality
2′ 0″x6′ 0″	1⅜	$1.55	$1.50	$1.22
2′ 6″x6′ 0″	"	1.89		
2′ 4″x6′ 4″	"	1.78	1.61	
2′ 0″x6′ 6″	"	1.74	1.63	
2′ 4″x6′ 6″	"	1.89	1.71	
2′ 6″x6′ 6″	"	1.89	1.71	1.35
2′ 6″x6′ 8″	"	1.93	1.75	
2′ 8″x6′ 8″	"	1.94	1.76	1.45
2′10″x6′10″	"	2.49	2.23	1.71
3′ 0″x7′ 0″	"	2.66	2.36	1.83
2′ 0″x6′ 0″	1⅜	1.83	1.65	
2′ 6″x6′ 0″	"	2..0	1.89	
2′ 8″x6′ 0″	"	2.16		
2′ 4″x6′ 4″	"	1.96	1.79	
2′ 0″x6′ 6″	"	1.98	1.78	
2′ 2″x6′ 6″	"	2.03	1.83	
2′ 4″x6′ 6″	"	2.03	1.83	
2′ 6″x6′ 6″	"	2.10	1.89	1.52
2′ 8″x6′ 6″	"	2.18	1.95	
2′ 0″x6′ 8″	"	2.01	1.81	
2′ 2″x6′ 8″	"	2.06	1.87	
2′ 4″x6′ 8″	"	2.06	1.87	
2′ 6″x6′ 8″	"	2.15	1.92	
2′ 8″x6′ 8″	"	2.16	1.93	1.61
2′ 6″x6′10″	"	2.48	2.23	
2′ 8″x6′10″	"	2.48	2.23	
2′10″x6′10″	"	2.59	2.34	1.89
2′ 0″x7′ 0″	"	2.46	2.34	
2′ 2″x7′ 0″	"	2.49	2.23	
2′ 4″x7′ 0″	"	2.49	2.23	
2′ 6″x7′ 0″	"	2.50	2.24	
2′ 8″x7′ 0″	"	2.56	2.33	
2′10″x7′ 0″	"	2.66	2.40	
3′ 0″x7′ 0″	"	2.76	2.50	2.03
2′ 6″x7′ 6″	"	3.10	2.79	
2′ 8″x7′ 6″	"	3.25	2.92	
2′ 6″x8′ 0″	"	3.55		
2′ 8″x6′ 8″	1⅜	3.26	2.94	
2′10″x6′10″	"	3.90	3.52	
2′ 6″x7′ 0″	"	3.75	3.37	
2′ 8″x7′ 0″	"	3.86	3.46	
2′10″x7′ 0″	"	3.98	3.59	
3′ 0″x7′ 0″	"	4.15	3.75	
2′ 6″x7′ 6″	"	4.65		
2′ 8″x7′ 6″	"	4.86		
2′10″x7′ 6″	"	5.12		
3′ 0″x7′ 6″	"	5.36		
2′ 6″x8′ 0″	"	5.33		
2′ 8″x8′ 0″	"	5.55		
3′ 0″x8′ 0″	"	6.20		

Painted and Grained Doors

Four Panel O. G. Doors

No. 10-A-58.

Size	Thickness	Painted	Grained
2′ 6″x6′ 6″	1⅜	$1.30	$1.40
2′ 8″x6′ 8″	"	1.37	1.47

No. 10-A-57.

Five Panel O. G. Doors

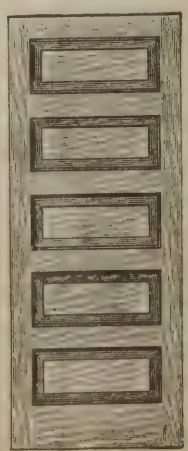
White Pine—Raised Panels Both Sides

NOTHING SHOPWORN ABOUT OUR MILL WORK

Size	Thickness Inches	Price A Quality	Price B Quality
2′ 6″x6′ 0″	1⅜	$2.00	$1.79
2′ 8″x6′ 8″	"	2.05	1.85
2′ 0″x6′ 0″	1⅜	1.92	1.76
2′ 0″x6′ 6″	"	2.16	1.96
2′ 2″x6′ 6″	"	2.16	1.96
2′ 4″x6′ 6″	"	2.16	1.96
2′ 6″x6′ 6″	"	2.20	2.00
2′ 0″x6′ 8″	"	2.22	2.01
2′ 2″x6′ 8″	"	2.22	2.01
2′ 4″x6′ 8″	"	2.25	2.01
2′ 6″x6′ 8″	"	2.26	2.03
2′ 8″x6′ 8″	"	2.26	2.04
2′10″x6′10″	"	2.79	2.46
2′ 0″x7′ 0″	"	2.59	2.34
2′ 2″x7′ 0″	"	2.59	2.34
2′ 4″x7′ 0″	"	2.59	2.34
2′ 6″x7′ 0″	"	2.60	2.35
2′ 8″x7′ 0″	"	2.66	2.42
2′10″x7′ 0″	"	2.76	2.49
3′ 0″x7′ 0″	"	2.87	2.60
2′ 6″x7′ 6″	"	3.20	
2′ 8″x7′ 6″	"	3.34	
3′ 0″x7′ 6″	"	3.67	
2′ 6″x8′ 0″	"	3.65	
3′ 0″x8′ 0″	"	4.15	
2′ 8″x6′ 8″	1¾	3.34	
2′10″x6′10″	"	4.01	
2′ 6″x7′ 0″	"	3.85	
2′ 8″x7′ 0″	"	3.95	
2′10″x7′ 0″	"	4.09	
3′ 0″x7′ 0″	"	4.25	
2′ 6″x7′ 6″	"	4.75	
3′ 0″x7′ 6″	"	5.46	
2′ 6″x8′ 0″	"	5.42	
3′ 0″x8′ 0″	"	6.17	

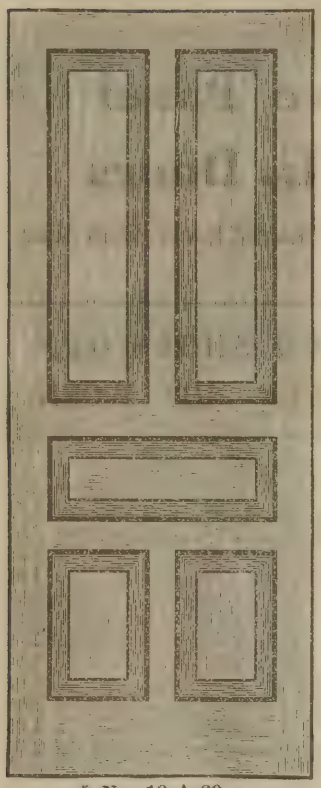
Five Cross Panel O. G. Doors

White Pine—Raised Panels Both Sides



No. 10-A-59.

SIZE ft.	in.	ft.	in.	Thick	A Quality	B Quality	Thick	A Quality	B Quality
2′	0″	x6′	0″	1⅜	$2.00	$1.85	1¾		
2′	0″	x6′	6″	"	2.26	2.06	"		
2′	6″	x6′	6″	"	2.29	2.10	"	$3.34	$3.01
2′	0″	x6′	8″	"	2.30	2.11	"		
2′	6″	x6′	8″	"	2.35	2.12	"		
2′	8″	x6′	8″	"	2.36	2.13	"	3.45	3.12
2′	6″	x6′	10″	"	2.69	2.44	"		
2′	8″	x6′	10″	"	2.69	2.44	"		
2′	10″	x6′	10″	"	2.80	2.56	"	4.10	3.71
2′	0″	x7′	0″	"	2.69	2.44	"		
2′	6″	x7′	0″	"	2.70	2.45	"	3.95	3.59
2′	8″	x7′	0″	"	2.77	2.51	"	4.05	3.66
3′	0″	x7′	0″	"	2.97	2.70	"	4.36	3.95
2′	6″	x7′	6″	"	3.30	2.98	"	4.84	4.39
3′	0″	x7′	6″	"	3.76	3.41	"	5.55	5.00
3′	0″	x8′	0″	"	4.25	3.85	"	6.27	5.67



No. 10-A-60.

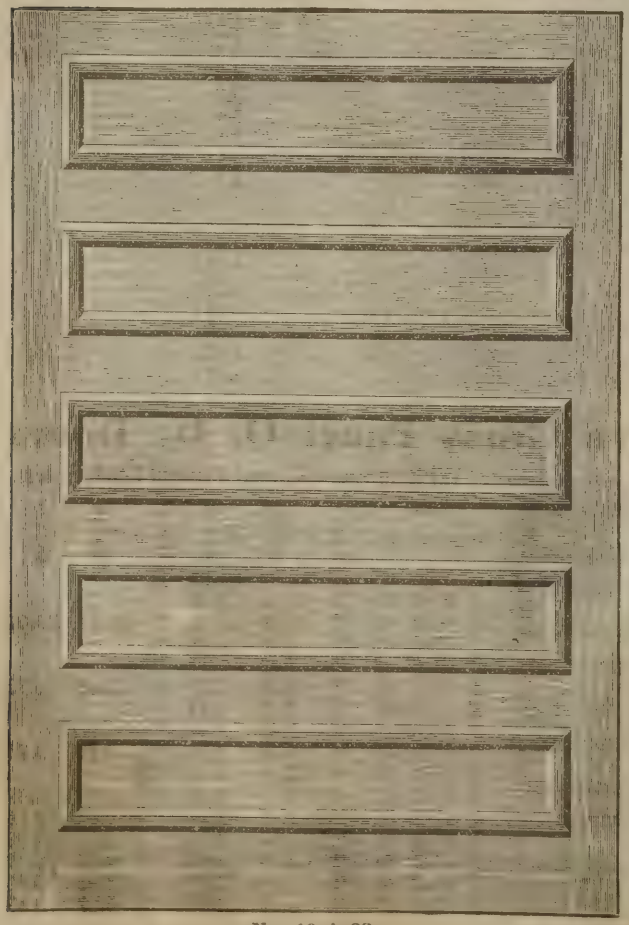
HIGH GRADE YELLOW PINE PANEL DOORS

These doors have "A" quality soft pine stiles and rails and yellow pine panels.

5 PANEL O. G. DOORS No. 10-A-60			5 CROSS PANEL DOORS No. 10-A-61	
A Quality 1⅜ Inch Thick	A Quality 1¾ Inch Thick	Size	A Quality 1⅜ Inch Thick	A Quality 1¾ Inch Thick
$2.00		2'0" x 6'0"	$2.11	
2.25		2'0" x 6'6"	2.35	
2.25		2'2" x 6'6"	2.35	
2.25		2'4" x 6'6"	2.35	
2.28		2'6" x 6'6"	2.39	
2.30		2'0" x 6'8"	2.40	
2.30		2'2" x 6'8"	2.40	
2.30		2'4" x 6'8"	2.40	
2.34		2'6" x 6'8"	2.44	
2.35	$3.47	2'8" x 6'8"	2.47	$3.59
2.81	4.17	2'10" x 6'10"	2.91	
2.69		2'0" x 7'0"	2.78	
2.69		2'2" x 7'0"	2.78	
2.69		2'4" x 7'0"	2.78	
2.70	4.00	2'6" x 7'0"	2.80	4.10
2.78	4.10	2'8" x 7'0"	2.87	4.21
2.87	4.25	2'10" x 7'0"	2.98	4.35
3.00	4.40	3'0" x 7'0"	3.08	4.55

No. 10-A-61.

SINGLE SLIDING DOORS



No. 10-A-63.

Architects now specify single sliding doors instead of folding doors or pairs of sliding doors. The extra width of our single sliding door displays the beautiful grain of the panels to great advantage. This door has soft fine stiles and rails and yellow pine panels, making a fine contrast. It is very handsome and adds beauty to your home. These doors are 1¾ inch thick and "A" quality.

Single Sliding Door.

Size Width Height	Thickness	Price
5'-0" x 7'-0".	1¾ in.	$8.75

DOUBLE SLIDING DOORS

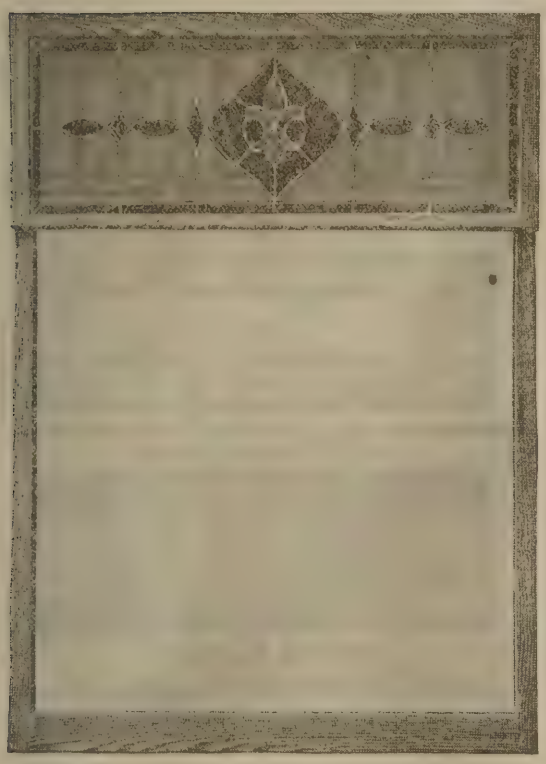
For Folding and Double Sliding Doors, use our high grade yellow pine panel doors as shown above, No. 10-A-61.

See page 45 for Folding and Double Sliding Door Astragals.

For Sliding Door hangers, track and locks, see Hardware section.

ARTISTIC FRONT WINDOWS

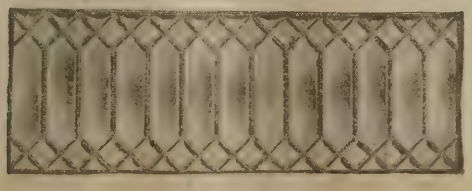
BEAUTIFUL COMBINATIONS



RUBY
Top sash glazed leaded colored art; bottom sash glazed selected D. S. glass.

EMBLEM
Top sash glazed colored art; bottom sash glazed selected D. S. glass.

BRUSSELS ART
Top sash glazed as illustrated; bottom sash glazed selected D. S. glass.



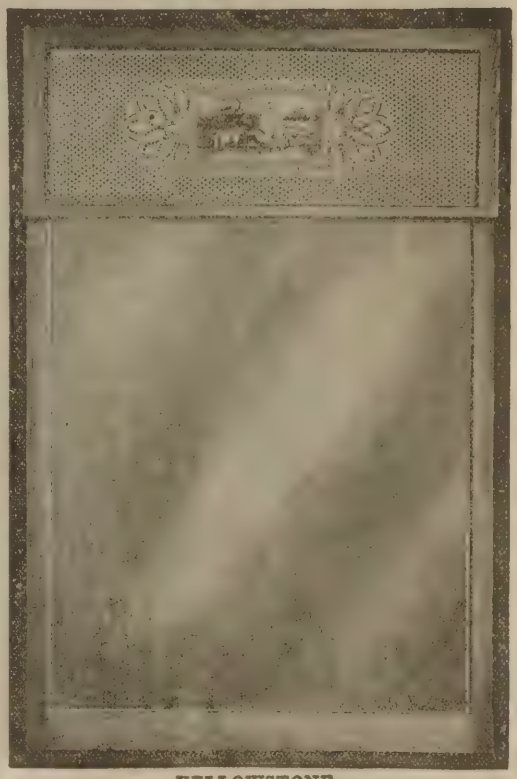
ARISTOCRAT
Glazed leaded bevel plate.

HIGH GRADE WORKMANSHIP AND QUALITY

We show a line of cottage front windows at prices that positively defy competition. The line is sufficiently large to enable one to make a selection to meet almost any requirement.

A beautiful window like a beautiful front door adds much to the beauty of the house and one does not usually realize this until pains are taken to note the actual difference.

Our cottage front windows are not only beautiful in design but are of the very best of manufacture and glass and combinations effected are most pleasing. To those who desire to invest the amount of money required we highly recommend such as our Aristocrat, Ruby and Emblem. However, for a more moderate price window there is our Plainview, Woodstock and Old Favorite as well as the various lace designs all of which have given great satisfaction and are very popular.



YELLOWSTONE

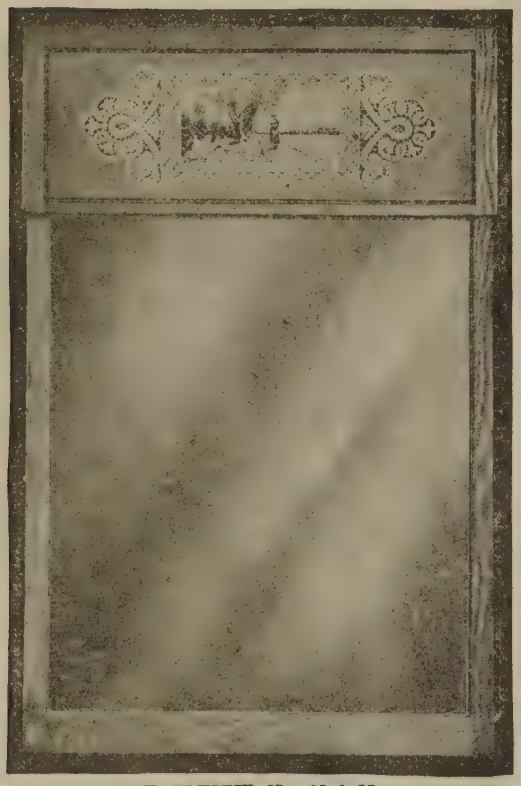
Here are some beauties. The variety of glass designs offered should appeal to the most artistic eye, regardless of the price. Our prices are practically the lowest for the same quality of material offered. The price named for the different designs cover one complete window, the bottom sash glazed with double strength "A" quality, top sash as illustrated.

Please note, while we show the design of glass only in our "Aristocrat," "Brussels Art" and "Emblem" window, the price covers one complete window, bottom and top sash, the bottom sash containing clear double strength "A" glass.

	Glass Size Bottom Sash	Glass Size Top Sash	Ruby No. 10-A-67	Emblem No. 10-A-68	BrusselsArt No. 10-A-69	Aristocrat No. 10-A-70	Yellowstone No. 10-A.66
3′8″x5′2″	40″x42″	40″x14″	$6.25	$6.35	$4.95	$ 9.00	$4.95
3′8″x5′6″	40″x46″	40″x14″	6.45	6.55	5.10	10.00	5.10
4′0″x5′2″	44″x40″	44″x16″	7.20	7.30	5.30	11.10	5.30
4′0″x5′6″	44″x44″	44″x16″	7.95	8.05	5.56	11.60	5.56
4′0″x5′10″	44″x48″	44″x16″	8.25	8.35	6.40	12.25	6.40

ARTISTIC FRONT WINDOWS

BEAUTIFUL COMBINATIONS.

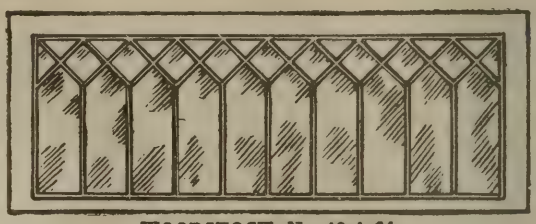


FAIRVIEW, No. 10-A-63.

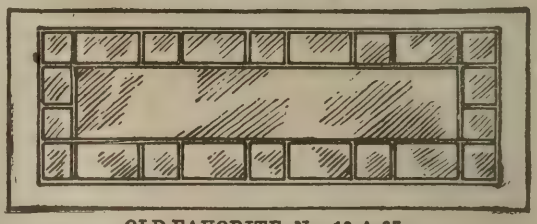
Top sash glazed with Portrait Lace Design. Bottom sash glazed selected double strength glass.

Our WOODSTOCK and OLD FAVORITE designs present the same views as our Aristocrat design, with the exception that the top sash contains wood bars instead of lead bars.

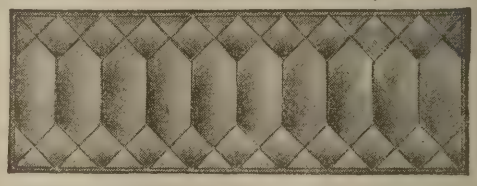
Our CRYSTAL design is worked out on the same principle as our high priced Aristocrat Window; contains the same high-grade workmanship, with the exception that the glass is of crystal clearness and double strength, instead of beveled plate. This design has proven a great popular seller, as it practically has the effect of some of the higher priced designs now on the market.



WOODSTOCK, No. 10-A-64.



OLD FAVORITE, No. 10-A-65.



CRYSTAL, No. 10-A-66.

Outside Measure.	Glass Size Bottom Sash.	Glass Size Top Sash.	Fairview No. 10-A-63	Woodstock No. 10-A-64.	Old Favorite No. 10-A-65.	Crystal No. 10-A-66.
3.8x5.2	40x42	40x14	$4.95	$7.75	$5.00	$5.00
3.8x5.6	40x46	40x14	5.10	8.20	5.45	5.25
4.0x5.2	44x40	44x16	5.30	8.60	5.85	6.00
4.0x5.6	44x44	44x16	5.56	9.00	6.25	6.15
4.0x5.10	44x48	44x16	6.40	9.20	6.45	6.90

PLAINVIEW, No. 10-A-61.

Our PLAINVIEW design is properly named, because it affords a clear and plain view over the entire window.

Both top and bottom sash on all windows contained on this page are glazed with double strength "A" quality glass.

PRICE OF PLAINVIEW.

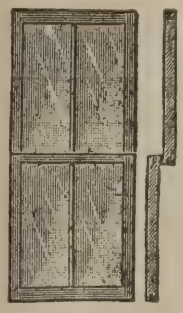
Outside Measure.	Glass Size Bottom Sash.	Glass Size Top Sash.	Price for Both.
3.8 x 5.2	40 x 40	40 x 16	$3.25
3.8 x 5.6	40 x 44	40 x 16	3.60
3.8 x 5.10	40 x 48	40 x 16	3.80
3.8 x 6.2	40 x 50	40 x 18	4.00
4.0 x 5.2	44 x 40	44 x 16	3.95
4.0 x 5.6	44 x 44	44 x 16	4.25
4.0 x 5.10	44 x 46	44 x 18	4.40
4.0 x 6.2	44 x 50	44 x 18	5.25
4.0 x 6.6	44 x 50	44 x 22	5.50
4.4 x 5.2	48 x 40	48 x 16	4.40
4.4 x 5.6	48 x 42	48 x 18	4.70
4.4 x 5.10	48 x 46	48 x 18	5.45
4.4 x 6.2	48 x 50	48 x 18	6.05
4.6 x 5.2	50 x 40	50 x 16	4.60
4.6 x 5.6	50 x 44	50 x 16	5.50
4.6 x 5.10	50 x 48	50 x 16	6.05
4.6 x 6.2	50 x 50	50 x 18	6.25
4.6 x 6.6	50 x 50	50 x 22	6.50
4.8 x 5.2	52 x 40	52 x 16	5.40
4.8 x 5.6	52 x 42	52 x 18	5.75
4.8 x 5.10	52 x 46	52 x 18	6.30
4.8 x 6.2	52 x 48	52 x 20	6.60
5.0 x 5.6	56 x 44	56 x 16	6.95
5.0 x 5.10	56 x 48	56 x 16	6.55
5.0 x 6.2	56 x 48	56 x 20	6.90

Two Light Check Rail Windows

1⅜ inches Thick

No. 10-A-71.

Size of Glass	Price per Window—Glazed Single Strength	Double Strength	Size of Window
16x16	$0.67	$0.83	1— 8⅛x3— 2
16x18	.67	.83	3— 6
16x20	.67	.83	3—10
16x24	.70	.92	4— 6
16x26	.80	1.06	4—10
16x28	.82	1.11	5— 2
16x30	.85	1.17	5— 6
16x32	.91	1.25	5—10
18x18	.72	.91	1—10⅛x3— 6
18x20	.72	.91	3—10
18x22	.78	1.01	4— 2
18x24	.79	1.05	4— 6
18x26	.84	1.09	4—10
18x28	.88	1.21	5— 2
18x30	.89	1.23	5— 6
18x32	.95	1.31	5—10
20x20	.79	1.02	2— 6⅛x3—10
20x22	.82	1.05	4— 2
20x24	.82	1.05	4— 6
20x26	.86	1.09	4—10
20x28	.92	1.16	5— 2
20x30	.96	1.23	5— 6
20x32	1.07	1.36	5—10
20x34	1.17	1.48	6— 2
20x36	1.23	1.58	6— 6
22x22	.87	1.11	2— 2⅛x4— 2
22x24	.87	1.11	4— 6
22x26	.90	1.14	4—10
22x28	.96	1.23	5— 2
22x30	1.05	1.34	5— 6
22x32	1.13	1.46	5—10
22x34	1.28	1.61	6— 2
22x36	1.30	1.73	6— 6
24x20	.88	1.16	2— 4⅛x3—10
24x22	.91	1.20	4— 2
24x24	.93	1.30	4— 6
24x26	.96	1.23	4—10
24x28	1.05	1.34	5— 2
24x30	1.11	1.43	5— 6
24x32	1.20	1.50	5—10
24x34	1.30	1.64	6— 2
24x36	1.32	1.65	6— 6
24x38	1.66	2.07	6—10
24x40	1.70	2.12	7— 2
26x22	1.02	1.36	2— 6⅛x4— 2
26x24	1.02	1.36	4— 6
26x26	1.09	1.41	4—10
26x28	1.18	1.49	5— 2
26x30	1.25	1.60	5— 6
26x32	1.29	1.64	5—10
26x34	1.50	1.90	6— 2
26x36	1.51	1.91	6— 6
26x38	1.66	2.07	6—10
26x40	1.70	2.12	7— 2
28x28	1.25	1.60	2— 8⅛x5— 2
28x30	1.26	1.61	5— 6
28x32	1.48	1.88	5—10
28x34	1.58	1.91	6— 2
28x36	1.64	2.10	6— 6
28x38	1.92	2.30	6—10
28x40	1.97	2.36	7— 2
30x24	1.23	1.65	2—10⅛x4— 6
30x26	1.36	1.80	4—10
30x28	1.36	1.81	5— 2
30x30	1.55	1.97	5— 6
30x32	1.62	2.08	5—10
30x34	1.66	2.12	6— 2
30x36	1.67	2.13	6— 6
30x38	$1.96	$2.46	2—10⅛x6—10
30x40	2.09	2.64	7— 2
32x24	1.40	1.73	3— 0⅛x4— 6
32x26	1.49	1.86	4—10
32x28	1.70	2.13	5— 2
32x30	1.93	2.31	5— 6
32x32		2.35	5—10
32x34		2.40	6— 2
32x36		2.66	6— 6
32x38		2.85	6—10
32x40		3.09	7— 2
34x24	1.59	1.89	3— 2⅛x4— 6
34x26	1.79	2.13	4—10
34x28	1.83	2.16	5— 2
34x30	1.97	2.36	5— 6
34x32		2.40	5—10
34x34		2.70	6— 2
34x36		2.85	6— 6
36x24	1.68	1.97	3— 4⅛x4— 6
36x26	1.88	2.21	4—10
36x28	2.05	2.43	5— 2
36x30	2.06	2.44	5— 6
36x32		2.73	5—10
36x34		2.95	6— 2
36x36		2.96	6— 6
40x28		2.50	3— 8⅛x5— 2
40x30		2.76	5— 6
40x32		3.00	5—10
40x34		3.01	6— 2
40x36		3.64	6— 6
40x38		3.66	6—10
40x40		3.70	7— 2



Four Light Check Rail Windows

1⅜ inches Thick

No. 10-A-72.

Size of Glass	Price per window—Glazed Single Strength	Size of Window
10x20	$0.78	2— 1 x3—10
10x22	.80	4— 2
10x24	.81	4— 6
10x26	.87	4—10
10x28	.94	5— 2
10x30	1.05	5— 6
10x32	1.15	5—10
12x20	.80	2— 5 x3—10
12x22	.90	4— 2
12x24	.93	4— 6
12x26	.98	4—10
12x28	1.04	5— 2
12x30	1.14	5— 6
12x32	1.21	5—10
12x34	1.43	6— 2
12x36	1.43	6— 6
12x38	1.64	6—10
12x40	1.79	7— 2
14x20	.96	2— 9 x3—10
14x22	1.04	4— 2
14x24	1.03	4— 6
14x26	1.14	4—10
14x28	1.19	5— 2
14x30	1.28	5— 6
14x32	1.36	5—10
14x34	1.63	6— 2
14x36	1.63	6— 6
14x38	1.84	6—10
14x40	1.89	7— 2
15x30	1.43	2—11 x5— 6
15x32	1.51	5—10

Four Light Windows Plain Rail

1⅜ inches Thick.

No. 10-A-73.

Size of Glass	Thickness	Price per window Glazed	Size of Window
12x20	1⅜	$0.80	2— 5x3 —10
12x24	"	.93	4— 6
12x26	"	.98	4—10
12x28	"	1.84	5— 2

Eight Light Windows Check Rail

No. 10-A-74.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
8x10	1⅜	$0.71	1— 9x3— 9¼
8x12	"	.77	5—2
9x12	"	.79	1—11 x4— 6
9x14	"	.89	5— 2
10x12	"	.81	2— 1x 4— 6
10x14	"	.90	5— 2
10x16	"	1.06	5—10
10x18	"	1.30	6— 6
12x14	"	1.03	2— 5x 5— 2
12x16	"	1.14	5—10
12x18	"	1.29	6— 6
14x16	"	1.34	2— 9x 5—10
14x18	"	1.54	6— 6
14x20	"	1.69	7— 2

Eight Light Windows Plain Rail

No. 10-A-75.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
8x10	1⅜	$0.63	1—8½x 3—9¼
8x12	"	.73	4— 6
9x12	"	.73	1—10½x4— 6
9x14	"	.86	5— 2
10x12	"	.77	2—0½x 4— 6
10x14	"	.87	5— 2
10x16	"	1.02	5—10
12x14	"	.99	2— 4½x5— 2
12x16	"	1.11	5—10
12x18	"	1.28	6— 6

Twelve Light Check Rail Windows

No. 10-A-76.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
8x10	1⅜	$0.83	2— 4½x3—10
8x12	"	.97	4— 6
8x14	"	1.14	5— 2
9x12	"	1.01	2— 7½x4— 6
9x14	"	1.19	5— 2
9x16	"	1.34	5—10
10x12	"	1.11	2—10½x4— 6
10x14	"	1.23	5— 2
10x16	"	1.41	5—10
10x18	"	1.69	6— 6
12x14	"	1.63	3— 4½x5— 2
12x16	"	1.79	5—10
12x18	"	1.95	6— 6
12x20	"	2.25	7—

12 Light Windows
Plain Rail

No. 10-A-77.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
7″x 9″	1⅛	$0.79	2′— 1″x3′— 5½″
8″x10″	“	.80	2 — 4″x3 — 9¼″
8″x12″	“	.92	2′ “ 4′— 6 ″
8″x14″	“	1.14	2′ “ 5′— 2 ″
9″x12″	“	.98	2′— 7″x4′— 6 ″
9″x14″	“	1.16	2′ “ 5′— 2 ″
9″x15″	“	1.30	2′ “ 5′— 6 ″
10″x12″	“	1.04	2′—10″x4′— 6 ″
10″x14″	“	1.16	“ 5′— 2 ″
10″x15″	“	1.30	“ 5′— 6 ″
10″x16″	“	1.34	“ 5′—10 ″
10″x18″	“	1.51	“ 6′— 6 ″
12″x14″	“	1.62	3′— 4″x5′— 2 ″
12″x16″	“	1.78	“ 5′—10 ″

15 Light Windows
Plain Rail

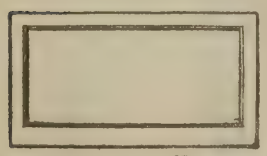
No. 10-A-78.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
8″x10″	1⅛	$1.04	2′— 4″x4′— 7½″
10″x12″	“	1.35	2′—10″x5′— 6 ″

18 Light Windows
Plain Rail

No. 10-A-79.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
8″x10″	1⅛	$1.28	2′— 4″x5— 4¼″
10″x12″	“	1.66	2′—10″x6′— 6 ″



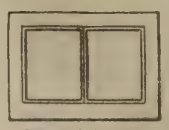
Transom Sash
1 Light

No. 10-A-80.

Size of Opening	Thickness	Price 1 Light
2′ 6″x10″	1⅛	$0 38
2′ 6″x12″	“	.38
2′ 6″x14″	“	.42
2′ 6″x16″	“	.46
2′ 6″x18″	“	.50
2′ 6″x20″	“	.60
2′ 8″x10″	“	.40
2′ 8″x12″	“	.40
2′ 8″x14″	“	.46
2′ 8″x16″	“	.48
2′ 8″x18″	“	.54
2′ 8″x20″	“	.70
2′10″x10″	“	.47
2′10″x12″	“	.47
2′10″x14″	“	.47
2′10″x16″	“	.54
2′10″x18″	“	.55
2′10″x20″	“	.64
3′ 0″x12″	“	.54
3′ 0″x14″	“	.54
3′ 0″x16″	“	.59
3′ 0″x18″	“	.64
3′ 0″x20″	“	.71

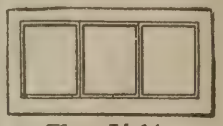
Cellar Sash
2 Lights

No. 10-A-81.



Two Lights.

Size of Glass	Thickness	Price Glazed Single	Price Glazed Double	Size of Sash
10″x12″	1⅜	$0.42	$0.66	2′—1″x16″
10″x14″	“	.44	.70	“ 18″
10″x16″	“	.50	.80	“ 20″
10″x18″	“	.54	.86	“ 22″
10″x20″	“	.62	1.00	“ 24″
12″x12″	“	.46	.72	2′—5″x16″
12″x14″	“	.51	.83	“ 18″
12″x16″	“	.54	.88	“ 20″
12″x18″	“	.57	.94	“ 22″
12″x20″	“	.66	1.04	“ 24″
14″x16″	“	.62	1.02	2′—9″x20″
14″x18″	“	.65	1.08	“ 22″
14″x20″	“	.74	1.19	“ 24″



Three Lights.

CellarSash
3 Lights

No. 10-A-82.

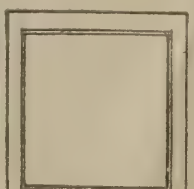
Size of Glass	Thickness	Price Glazed Single	Price Glazed Double	Size of Sash
7″x 9″	1⅛	$0.39	$0.60	2′—1″x1′ 1″
8″x10″	“	.41	.64	2′—4″x1′ 2″
8″x12″	“	.45	.71	“ 1′ 4″
8″x14″	“	.50	.80	“ 1′ 6″
9″x12″	“	.47	.74	2′—7″x1′ 4″
9″x14″	“	.50	.80	“ 1′ 6″
9″x16″	“	.58	.90	“ 1′ 8″
10″x12″	“	.52	.80	2′—10″x1′4″
10″x14″	“	.56	.90	“ 1′6″
10″x16″	“	.63	1.01	“ 1′8″
12″x12″	“	.69	.87	3 — 4″x1′4″
12″x14″	“	.76	1.16	“ 1′6″
12″x16″	“	.80	1.23	“ 1′8″
12″x18″	“	.87	1.35	“ 1′10″

Stall Sash
1 Light

1⅛ in. Thick

No. 10-A-83.

Size of Glass	Price per Sash Glazed
10″x12″	$0.36
10″x14″	.38
12″x14″	.42
12″x16″	.43



Attic Sash
1 Light

3 in. Bottom Rail,
1⅜ in. Thick.

No. 10-A-84.

Size of Glass	Price per Sash Glazed	Size of Sash
18″x20″	$0.57	1′—10″x2′ 1″
20″x20″	.61	2′— 0″x2′ 1″
20″x24″	.68	2′ 5″
24″x24″	.78	2′— 4″x2′ 5″
24″x28″	.84	2′ 9″

New Two Light
Pantry Windows

One Light Wide Check Rail, 1⅜ in Thick

No. 10-A-85.

Size of Glass	Price per window Glazed	Size of Window
12″x20″	$0.65	1′—4½″x3′10″
12″x24″	.68	“ 4′ 6″
12″x26″	.78	“ 4′10″
12″x28″	.80	“ 5′ 2″
12″x30″	.83	“ 5′ 6″
12″x32″	.89	“ 5′10″
12″x34″	1.06	“ 6′ 2″
12″x36″	1.08	“ 6′ 6″
14″x20″	.66	1′—6½″x3′10″
14″x24″	.69	“ 4′ 6″
14″x26″	.79	“ 4′10″
14″x28″	.81	“ 5′ 2″
14″x30″	.84	“ 5′ 6″
14″x32″	.90	“ 5′10″
14″x34″	1.06	“ 6′ 2″
14″x36″	1.09	“ 6′ 6″

Brand New
Barn Sash

Four Lights, 1⅛ in. Thick.

No. 10-A-86.

Size of Glass	Price per Sash Glazed	Size of Glass	Price per Sash Glazed
8″x10″	$0.45	10″x12″	$0.56
8″x12″	.53	10″x14″	.60
9″x12″	.53	10″x16″	.76
9″x14″	.57	12″x14″	.76
9″x16″	.71	12″x16″	.83

Barn Sash

1⅛ in. Thick

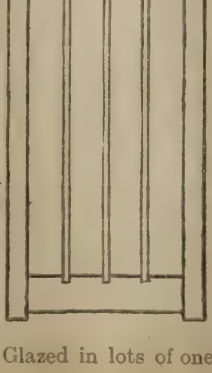
No. 10-A-87.

Size of Glass	Price per Sash Glazed
8″x10″	$0.64
9″x12″	.75
10″x12″	.82
10″x14″	.90

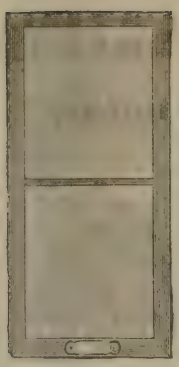
Hot Bed Sash

Size of Sash, 3x6 ft. 1⅜ in. Thick
Glazed with 4 rows of clear 7 in. glass.
Made of clear Western pine.

No. 10-A-88.



Unglazed, single lots. $0.95
Unglazed in lots of one dozen or more. .90
Glazed in single lots. 1.65
Glazed in lots of one dozen or more. 1.60
Made of No. 1 white pine unglazed, single lots. .90
Unglazed, in lots of one dozen or more. .85
Glazed in single lots. 1.60
Glazed in lots of one dozen or more... 1.55



Storm Sash. Two Lights.

1⅛"

No. 10-A-89.

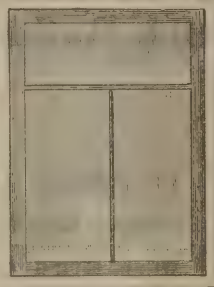
Size of Glass	Price Glazed Single Strength	Price Glazed Double Strength	Size of Glass	Price Glazed Single Strength	Price Glazed Double Strength
16x24	$0.70	$0.92			
16x26	.80	1.06	22x26	$0.90	$1.14
16x28	.82	1.11	22x28	.98	1.23
16x30	.85	1.17	22x30	1.05	1.34
16x32	.91	1.25	22x32	1.13	1.46
18x24	.79	1.05	22x34	1.28	1.61
18x26	.84	1.09	22x36	1.30	1.73
18x28	.88	1.21	24x24	.93	1.20
18x30	.89	1.23	24x26	.96	1.23
18x32	.95	1.31	24x28	1.05	1.34
20x20	.79	1.02	24x30	1.11	1.43
20x22	.82	1.05	24x32	1.20	1.50
20x24	.82	1.05	24x34	1.30	1.64
20x26	.86	1.09	24x36	1.32	1.65
20x28	.92	1.16	26x28	1.18	1.49
20x30	.96	1.23	26x30	1.25	1.60
20x32	1.07	1.36	26x32	1.29	1.64
20x34	1.17	1.48	28x30	1.26	1.66
22x24	.87	1.11	28x32	1.48	1.88

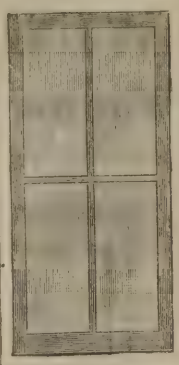
Ventilators in Bottom, 10c extra.

No. 10-A-90.

Size Bottom Glass Inches	Size Top Glass Inches	Price Glazed D. S.
40x40	40x14	$2.88
40x40	40x16	2.93
40x44	40x16	3.27
44x40	44x16	3.37
44x44	44x16	3.47
44x46	44x18	3.62
44x50	44x18	3.87

Ventilators in Bottom, 10c extra.





Storm Sash. Four Lights.

No.10-A-91.

Size of Glass	Price	Size of Glass	Price
10x20	$0.72	12x26	$0.93
10x22	.80	12x28	1.04
10x24	.81	12x30	1.14
10x26	.87	12x32	1.21
10x28	.94	12x34	1.46
10x30	1.04	12x36	1.46
10x32	1.16	14x26	1.14
12x20	.80	14x28	1.19
12x22	.90	14x30	1.23
12x24	.93	14x32	1.36

Ventilators in Bottom, 10c extra.

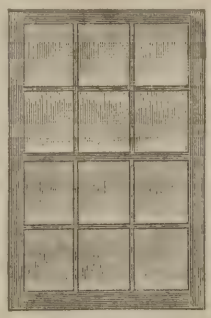
Storm Sash 12 Lights.

1⅛ Inch Thick.

No. 10-A-92.

Size of Glass	Price Glazed
8x10	$0.83
9x12	1.01
9x14	1.19
10x12	1.20
10x14	1.23

Ventilators in Bottom, 10c extra.



Storm Sash. Eight Lights.

1⅛ Inch Thick

No.10-A-93.

Size of Glass	Price Glazed
8x10	$0.71
9x12	.79
10x12	.81
10x14	.90
10x16	1.06
12x14	1.03
12x16	1.14

Ventilators in Bottom, 10c extra.

BLINDS.

OUTSIDE BLINDS.

ROLLING SLATS.

No. 10-A-94.

FOR TWO LIGHT WINDOWS.

1⅛ Inch Thick.

Size of Glass	Price per Pair	Size of Glass	Price per Pair
20x24	$1.12	24x40	$2.09
20x28	1.21	26x28	1.31
20x30	1.31	26x30	1.39
20x32	1.35	26x32	1.42
20x34	1.69	26x34	1.76
20x36	1.80	26x36	1.90
22x24	1.12	26x38	2.02
22x26	1.24	26x40	2.17
22x28	1.26	28x28	1.27
22x30	1.31	28x30	1.39
22x32	1.35	28x32	1.42
22x34	1.69	28x34	1.76
22x36	1.80	28x36	1.90
24x24	1.12	28x38	2.02
24x26	1.24	28x40	2.17
24x28	1.26	30x30	1.76
24x30	1.31	30x32	1.75
24x32	1.35	30x34	1.79
24x34	1.69	30x36	1.94
24x36	1.80	30x38	2.06
24x38	1.94	30x40	2.24

FOR TWO LIGHT PANTRY WINDOWS.

1⅛ Inch Thick.

No. 10-A-95.

12x24	$0.77	14x26	$0.92
12x28	.83	14x28	.97
12x30	.86	14x30	1.00
12x32	1.02	14x32	1.05
12x34	1.11	14x36	1.27
14x24	.90		

FOR FOUR LIGHT WINDOWS. 1⅛ Inch Thick.

No. 10-A-96,

12x20	$1.00	14x24	$1.24
12x24	1.12	14x 6	1.26
12x26	1.24	14x28	1.27
12x28	1.26	14x30	1.29
12x30	1.31	14x32	1.42
12x32	1.35	14x34	1.76
12x34	1.69	14x36	1.90
12x36	1.80	14x38	2.02
12x38	1.94	14x40	2.17
12x40	2.07		

FOR 8 LIGHT WINDOWS. 1⅛Inch Thick.

No. 10-A-97.

8x10	$1.01	10x14	$1.26
10x12	1.12	10x16	1.35

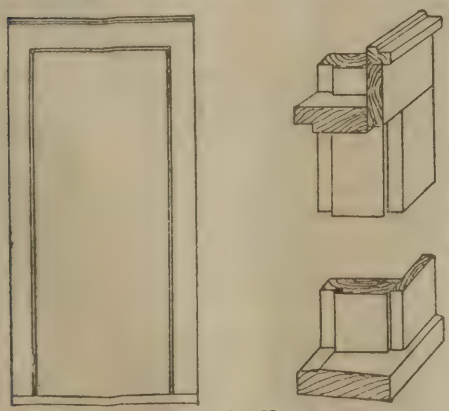
FOR 12 LIGHT WINDOWS. 1⅛ Inch Thick.

No. 10-A-98.

8x10	$1.01	10x14	$1.61
9x12	1.24	10x16	1.85
9x14	1.26	10x18	1.94
9x16	1.31	10x20	2.24
10x12	1.45		

WINDOW AND DOOR FRAMES FOR FRAME BUILDINGS.

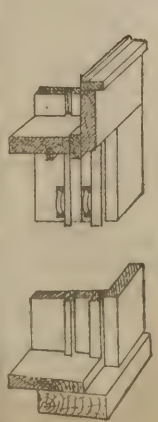
PLAIN DRIP-CAP DOOR FRAMES.



DOOR FRAME. No. 10-A-99.

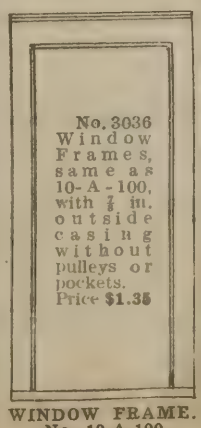
Outside door frame No. 10-A-99 includes everything complete as shown; outside casing, 1¼x4½; oak sill, 1¾x7¼; rabbeted jamb, 1⅛x5¼. Made from sound, selected clear face yellow poplar, bright clear stock. Guaranteed first class in every particular. Outside door frames F. O. B. Chicago, No. 10-A-99, including everything complete, oak sill as shown, bundled for shipment in the knock-down.....$1.85

PLAIN DRIP-CAP WINDOW FRAME.



Window frame No. 10-A-100 includes everything complete on outside casing 1⅛x4½ inch, main sill 1¼x3½ in., sub sill ⅞x5⅝ in. jambs, including stile and blind stops 5⅝ in. wide, parting strip, etc. Made from sound selected clear face yellow poplar, bright clear stock. Guaranteed first class in every particular. Window frames F. O. B. Chicago, No. 10-A-100 including everything as described, complete bundled for shipment in the knock-down, with pulleys.....$1.65

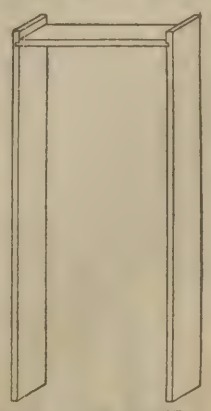
All usual size window frames carried in stock and all take the one price. Any carpenter can put a knock-down frame together in ten minutes.



No. 3036 Window Frames, same as 10-A-100, with ⅞ in. outside casing without pulleys or pockets. Price $1.35

WINDOW FRAME. No. 10-A-100.

INSIDE DOOR JAMBS.



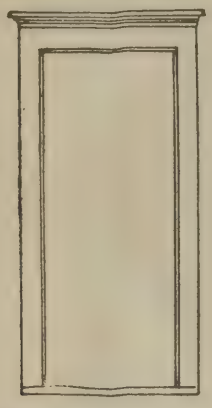
INSIDE DOOR JAMBS. For Frame Buildings.

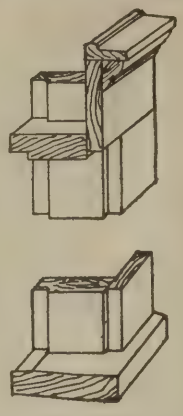
No. 10-A-101. Inside Jambs for 2x4 studding, opening 3x7 or smaller.....$0.50

No. 10-A-102. For Jambs with transom heads add.....$0.25

OUTSIDE DOOR AND WINDOW FRAMES

Crown Mould Cap Door Frames





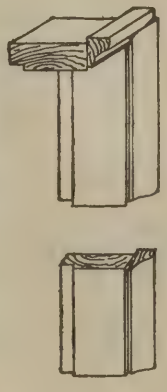
This frame has 1⅛x3 inch Drip Cap, 1⅛x7 inch head casing, 1¼x4½ inch outside casing, 2¼ inch crown moulding, 1⅜x5½ jamb rabbeted to suit thickness of door and a 1¾ oak sill.

No. 10-A-103. Plain Crown mould cap outside door frame for frame buildings with 2x4 studding, standard size. Knocked down and carefully bundled as stated above For door 3 ft. by 7 ft. or smaller opening. Price....**$2.00**

No. 10-A-104. Door frame same as preceding number except with transom head. Price.....**$2.40**

Door Frames for Stone, Cement Block or Solid Brick Building

In ordering be sure to state for what kind of wall frames are desired.

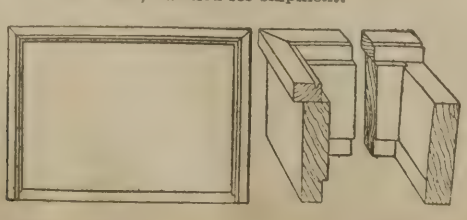


This frame has a 1⅛x1⅝ clear brick moulding and a 1¾x7½ inch jamb, good, sound and practically clear, only occasional defects being allowable. No sill furnished with this frame.

No. 10-A-106. Door frame for stone or brick buildings. Knocked down and carefully bundled for shipment. As stated above, for door 3 ft. by 7 ft. or smaller opening. Price.....**$1.90**

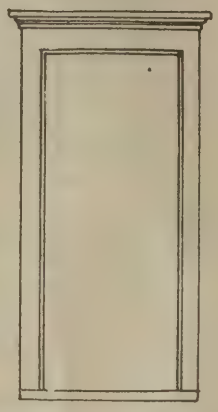
Cellar Frames

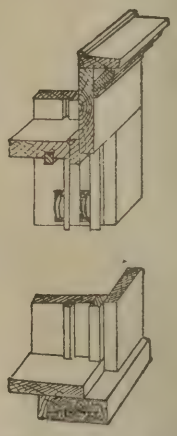
Plank cellar sash frames are made with a 1¾x5⅝ jamb. 1⅛x1¼ clear brick moulding. Knocked down, bundled for shipment.



No. 10-A-107. Plank cellar sash frame, size 2 ft. 10x2 ft. or smaller opening. Price.....**$1.00**

Crown Mould Cap Window Frames

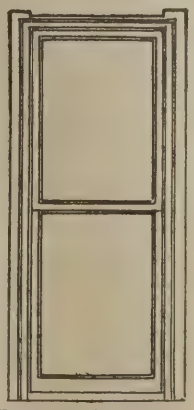




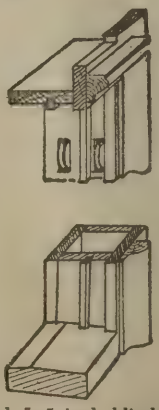
This frame has 1⅛x3 inch Drip Cap, 2¼ inch Crown moulding, 1¼x7 inch head casing, 1¼x4½ inch outside casing, 1⅛x5⅝ inch jamb including blind stop, 1⅛x1⅜ inch blind stop, ½x1⅛ inch parting stop, 1⅛x5¾ inch sub sill, 1¾x3¾ main sill including pockets and pulleys.

No. 10-A-105. Plain Crown mould cap window frame for frame buildings with 2x4 studding, standard size. Knocked down and carefully bundled for shipment. Price.....**$1.80**

Window Frames for Stone, Cement Block or Solid Brick Building



In ordering be sure to state for what kind of wall frames are desired.



This frame has a 1⅛x1⅝ inch clear brick mould, ⅞x5 inch blind stop, ⅞x4½ inch pulley stile, ½x1⅛ parting stop, ⅞x4½ inch rabbeted box lining and ⅞x4½ inch back box lining. The box linings are made from common lumber as they are entirely covered up, the balance is made from good sound stock.

No. 10-A-108. Frames for stone, cement block or solid brick building. Knocked down and carefully bundled for shipment, as described above.

For windows 2 feet 6 inches wide by 5 feet 2 inches high or smaller opening. Price.....**$1.94**

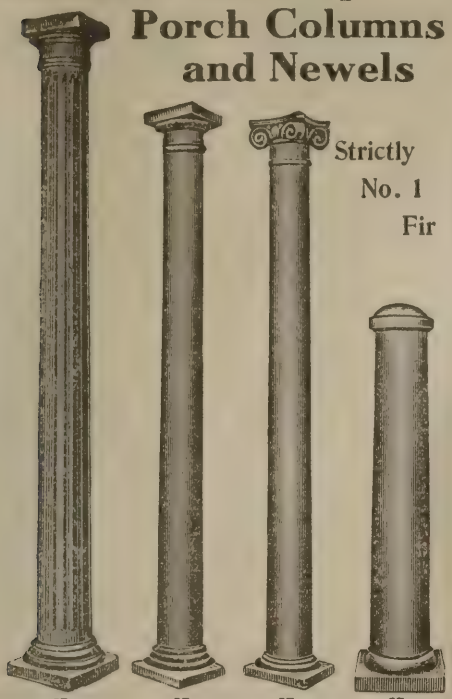
For windows 2 feet 10 inches wide by 6 feet 6 inches high or smaller opening. Price.....**$2.25**

Prices Include Pulleys

Window Frames For Brick Veneered Building.

We can also furnish you window frames for Brick Veneered Buildings, with 2x4 studding surfaced to standard size for an additional cost of 25 cents extra over the price of a regular Drip Cap window frame.

Colonial Built Up Porch Columns and Newels



Strictly No. 1 Fir

No. 10-A-109 | No. 10-A-110 | No. 10-A-111 | No. 10-A-112

Size	No. 10 -A-109	No. 10 -A-110	No. 10 -A-111	No. 10 -A-112
6 x 6— 4 feet	....	....	....	$1.25
8 x 8— 4 "	....	....	....	1.45
6 x 6— 8 "	$1.70	$2.80	....	....
6 x 6— 9 "	1.80	2.95	....	....
6 x 6—10 "	2.00	3.15	....	....
8 x 8— 8 "	2.25	3.05	$3.05	....
8 x 8— 9 "	2.45	3.40	3.30	....
8 x 8—10 "	2.70	3.55	3.50	....
10 x 10— 4 "	....	....	....	1.90
10 x 10— 8 "	3.00	4.15	4.15	....
10 x 10— 9 "	3.30	4.45	4.40	....
10 x 10—10 "	3.45	4.75	4.75	....
12 x 12— 8 "	4.15	5.65	5.70	....
12 x 12— 9 "	4.55	6.10	6.15	....
12 x 12—10 "	5.05	6.30	6.55	....

Fancy Porch Columns and Newels

Fir Only

No. 10-A-113 | No. 10-A-114 | No. 10-A-115

Fancy Porch Columns.

Size	No. 10-A-113 8 ft.	9 ft.	10 ft
4 x 4	$0.65	$0.70	$0.75
5 x 5	1.00	1.15	1.25
6 x 6	1.50	1.65	1.80

Fancy Porch Newels.

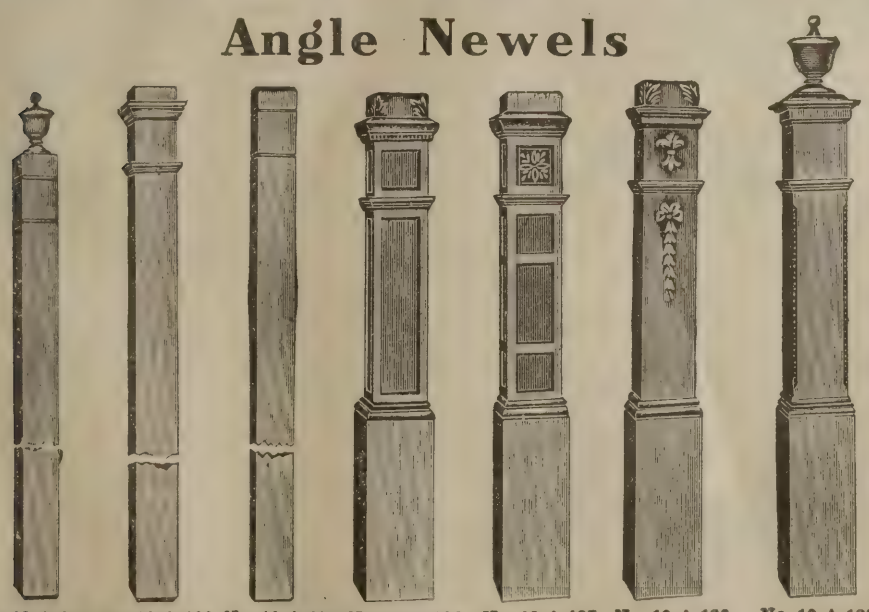
Size	No. A-114	No. A-115
4 x 4—4 feet	$0.35	$0.40
5 x 5—4 "	.50	.55
6 x 6—4 "	.70	.75

Stair and Angle Newels

Main Newels selected, stock. Stair Newels 6-inch shaft. Length 4 feet. Long base.

	Price each, Yellow Pine	Plain Oak
No. 10-A-123	$3.15	$3.40
No. 10-A-124	4.00	4.30
No. 10-A-125	4.50	5.00
No. 10-A-126	3.65	3.95

Angle Newels

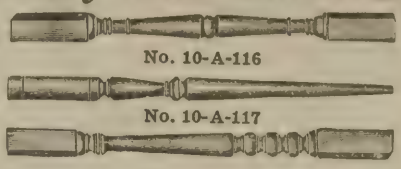


No. 10-A-127 | No. 10-A-128 | No. 10-A-129 | No. 10-A-124 | No. 10-A-125 | No. 10-A-126 | No. 10-A-123

5-inch Shaft. Extra Long.

No. 10-A-127.	Price each	Yellow pine, $1.90;	plain oak, $2.05
No. 10-A-128.	Price each	Yellow pine, 2.00,	plain oak, 2.10
No. 10-A-129.	Price each	Yellow pine, 1.85;	plain oak, 2.05

Fancy Stair Balusters



No. 10-A-116

No. 10-A-117

No. 10-A-118

Size	Yellow Pine	Oak
1¾ x 1¾ x 24, price each, either style	$0.09	$0.10
1¾ x 1¾ x 28 " " " "	.10	.12

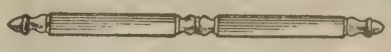
Fancy Porch Balusters

No. 10-A-119 | No. 10-A-120 | No. 10-A-121 | No. 10-A-122

No. 10-A-119, 120, 121, 122.

Size	Price each
1¾ x 18	$0.05
1¾ x 20	.05½
1¾ x 22	.05
1¾ x 24	.05

Corner Beads



No. 10-A-130

Size	Price each
1⅜ x 4′	$0.10
1⅝ x 4′	.13

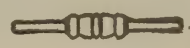
Base Angles

No. 10-A-131

Size	Price per 100
1⅜ x 12″ or 14″	$1.90

Fancy Porch Spindles

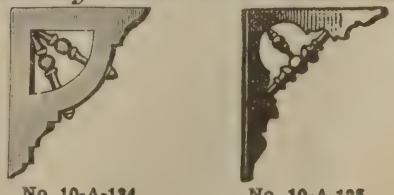
No. 10 -A-132



No. 10 -A-133

Size	No. 10-A-132 Price each	No. 10-A-133 Price each
1¾ x 8″	$0.02	$0.02
1¾ x 10″	.02½	.02½
1¾ x 12″	.02½	.02½

Fancy Porch Brackets



No. 10-A-134 | No. 10-A-135

No. 10-A-134 and 135

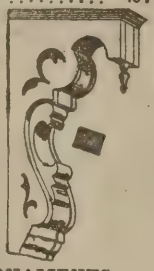
Size	Price each
10 x 12 x 1¾″	$0.07
12 x 14 x 1¾″	.08
12 x 16 x 1¾″	.09

PLATE RAIL.

No. 10-A-136. Projection from wall 3½ inches. Height over all 2¼ inches. Price complete as shown.
Yellow pine, per lineal ft.....$0.06
Plain sawed oak.....$0.07

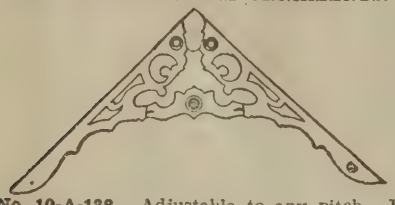
FANCY FACE BRACKET.
3-Member, 3½ in. Thick.

No. 10-A-137.



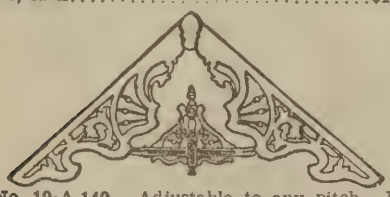
Size, Inches.	Price.
8x16	$0.35
8x20	.40
8x24	.45
10x20	.50
10x24	.55
10x30	.65

ADJUSTABLE GABLE ORNAMENTS.



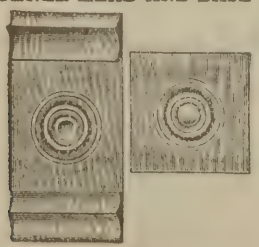
No. 10-A-138. Adjustable to any pitch. Extends 4 feet down gable.
Price, each.....$1.00

No. 10-A-139. Adjustable to any pitch. Extends 5 feet down gable.
Price, each.....$1.35

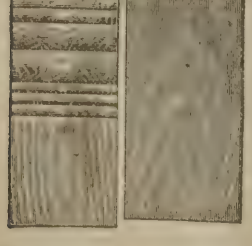


No. 10-A-140. Adjustable to any pitch Extends down gable 6 feet.
Price, each.....$2.50

FANCY CORNER HEAD AND BASE BLOCKS.



No. 10-A-141. **No. 10-A-142.**

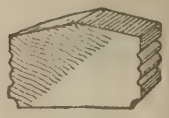


No. 10-A-143. **No. 10-A-144.**

	Price, each.		Price, each.
No. 10-A-141	$0.02½	**No. 10-A-143**	$0.04½
No. 10-A-142	.04½	**No. 10-A-144**	.04½

PORCH RAILS.

No. 10-A-145.
Top rail, 2½x3¾ inches
Price per 100 feet $5.95



No. 10-A-146. Top rail, 1¾x3 inches.
Price per 100 feet.....$3.90

No. 10-A-147. Bottom rail, 1¾x3 inches.
Price per 100 feet.....$3.90

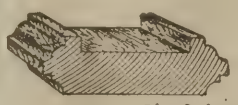
No. 10-A-148. Bottom rail, 1¾x3½ inches.
Price per 100 feet.....$4.50

No. 10-A-149. Frieze rail, 1¾x2⅜ inches.
Price per 100 feet.....$3.60

No. 10-A-150. Frieze rail, 1¾x3 inches.
Price per 100 feet.....$3.90

No. 10-A-151. Baluster stock, 1¾x1¾ inches.
Price per 100 feet.....$2.40

No. 10-A-152. Baluster stock, 1⅜x1⅜ inch.
Price per 100 feet.....$1.65

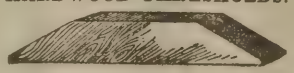


⅞ x 2¾

FANCY SHOE.

No. 10-A-153. Price per lineal foot.
Yellow pine.....4c
Oak.....5c

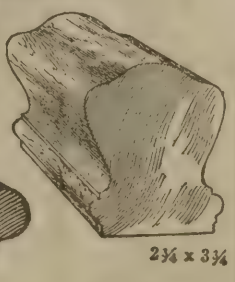
HARDWOOD THRESHOLDS.



No. 10-A-154.
Clear Maple, length 3 feet.....Price, each..7c
Clear Oak, length 3 feet..... " " ..9c

FANCY STAIR RAILS.

2¼ x 3¾

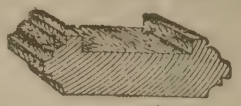


2¼ x 3¾

No. 10-A-155. **No. 10-A-156.**
Price per lineal foot.

	Yellow Pine.	Oak.
No. 10-A-155	$0.09½	$0.12
No. 10-A-156	.07	.10

FANCY SHOE AND FILLET.



⅞ x 2¾ **No. 10-A-157.**

⅜ x 1¼ **No. 10-A-158.**

Price per Lineal Foot.

	Yellow Pine.	Oak;
No. 10-A-157	$0.04	$0.05
No. 10-A-158	.01½	.02

CROWN MOULDINGS.

Price per 100 lineal feet.

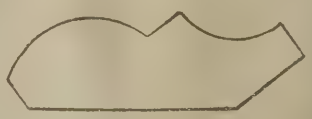
No.	Size.	Poplar or White Pine.
8000	⅞x3¼	$1.57
8002	⅞x3¼	1.80
8003	⅞x2¾	1.35
8005	⅞x4¾	2.25
8006	⅞x4¼	2.02
8007	⅞x4⅝	.80
8008	⅞x2¼	1.12

No.	Size.	Poplar or White Pine
8009	⅞x3¼	$1.80
8010	⅞x2¼	1.35
8011	⅞x2¼	1.12
8012	⅞x4¼	2.02
8013	⅞x1¾	2.25
8014	⅞x3¼	1.57

SPRUNG COVE AND BED.

Price per 100 lineal feet.

No.	Size.	Poplar or White Pine.
8015	⅞x1	$0.46
8016	⅞x1⅜	.80



Price per 100 lineal feet.

No.	Size.	Poplar or White Pine.
8018	⅞x2¼	$1.12
8019	⅞x2¾	1.35
8020	⅞x3¼	1.57

SPRUNG COVE.

Price per 100 lineal feet

No.	Size.	Poplar or White Pine.
8024	⅞x1¾	$0.80
8025	⅞x2¼	1.12
8030	⅞x2¼	1.12
8031	⅞x1¼	.80
8032	⅞x2	.90

COVES.

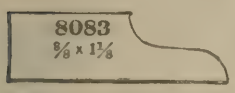
Price per 100 lineal feet.

No.	Size.	Poplar Yellow or White Pine.	Yellow Pine.
8060	¾x¾	$0.33	$0.40
8061	⅞x1⅛	.42	.50

QUARTER-ROUND.

Price per 100 lineal feet.

No.	Size	Poplar Yellow or White Pine	Yellow Pine
8055	¾x¾	$0.30	$0.40
8066	⅞x⅞	.30	.40



O. G. STOPS.

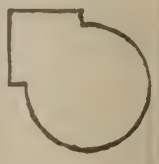
Price per 100 lineal feet

No.	Size	Yellow Pine
8083	⅝x1½	$0.33
8084	¾x1⅜	.37
8085	¾x1¾	.47
8094	¼x3	.72
8095	¼x1¾	.54
8096	⅞x1⅜	.41
8097	½x1	.37

SOLID BED MOLDS.

No.	Size	Poplar
8035	¾x¾	$0.40
8039	1¼x1¾	2.20
8045	¾x1½	.60
8048	1¼x2	2.79

RETURN BEADS.



No.	Size	Yellow Pine
8049	1⅜x1⅜	$1.95
8050	1½x1½	.92
8051	1 x1	.67

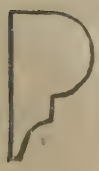
Three-Quarter Round.

No.	Size	Yellow Pine
8055	1⅜"	$1.12
8056	1⅝"	1.94

HALF ROUND.

No.	Size	Yellow Pine
8078	½x1	$0.37
8080	⅝x1⅜	.53
8081	⅞x1½	.67

NOSINGS.

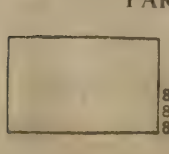


No.	Size	Yellow Pine	White Pine or Poplar
8123	⅞x1½	$0.46	$0.66
8124	1⅛x2	1.50	1.69
8125	1⅜x2¼	1.98	2.23
8126	1⅜x2⅞	3.52	3.96
8131	⅛x	.46	.56

ASTRAGALS.

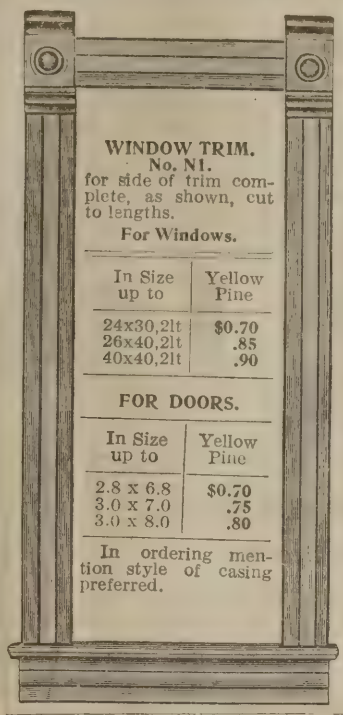
No.	Size.	White Pine or Poplar.
8139	⅜x⅜	$0.33
8140	⅜x¾	.33

PARTING STOPS.



No.	Size.	Yellow Pine	White Pine or Poplar
8432	½x¾	$0.30	$0.40
8281	⅜x1⅛	.30	.40
8282	⅜x1⅜	.47	.54

WINDOW AND DOOR TRIM.



WINDOW TRIM.
No. N1.
for side of trim complete, as shown, cut to lengths.

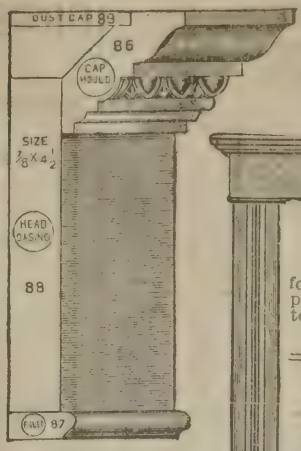
For Windows.

In Size up to	Yellow Pine
24x30,2lt	$0.70
26x40,2lt	.85
40x40,2lt	.90

FOR DOORS.

In Size up to	Yellow Pine
2.8 x 6.8	$0.70
3.0 x 7.0	.75
3.0 x 8.0	.80

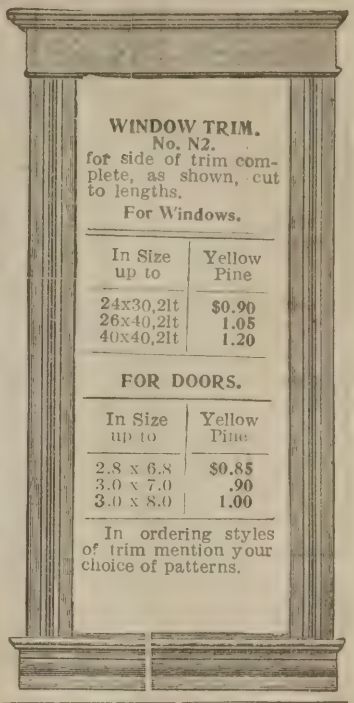
In ordering mention style of casing preferred.



SPECIAL CAP TRIM.

Price per 100 lineal ft.

No. 86
Cap Moulding...$2.15
No. 87.
Fillet..... .40
No 88.
Head Casing.....2.00
No. 89.
Dust Cap..... .30



WINDOW TRIM.
No. N2.
for side of trim complete, as shown, cut to lengths.

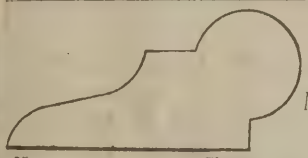
For Windows.

In Size up to	Yellow Pine
24x30,2lt	$0.90
26x40,2lt	1.05
40x40,2lt	1.20

FOR DOORS.

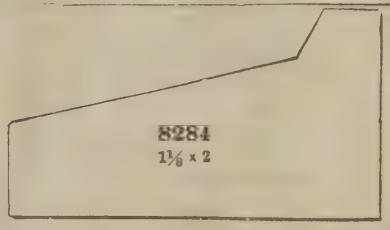
In Size up to	Yellow Pine
2.8 x 6.8	$0.85
3.0 x 7.0	.90
3.0 x 8.0	1.00

In ordering styles of trim mention your choice of patterns.



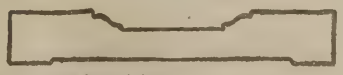
PICTURE MOULDING.

No.	Size.	Yellow Pine.
8263	1¾x1¾	$0.67
8864	⅛x1¼	.67



No.	Size.	White Pine or Poplar.
8283	1⅛x1¼	$1.33
8284	1⅛x2	1.69
8285	1⅛x2½	2.05
8286	1⅛x3	2.43

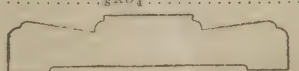
CASINGS.



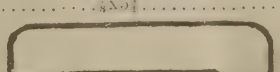
Price per 100 lineal feet.

No.	Size.	Yellow Pine
8288	⅞x3¾	$1.55
8289	⅞x4¼	1.75
8290	⅞x4¾	2.00
8291	⅞x5¼	2.10

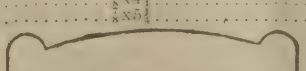
8300	⅞x3¾	$1.55
8301	⅞x4¼	1.75
8302	⅞x4¾	2.00
8303	⅞x5¼	2.10



8304	⅞x3¾	$1.55
8305	⅞x4¼	1.75
8306	⅞x4¾	2.00
8307	⅞x5¼	2.10

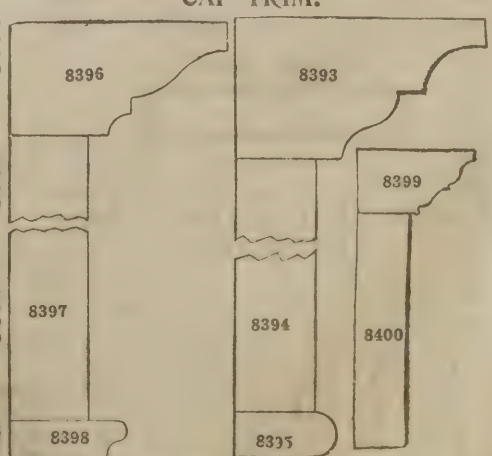


8308	⅞x3¾	$1.55
8309	⅞x4¼	1.75
8310	⅞x4¾	2.00
8311	⅞x5¼	2.10



8340	⅞x3¾	$1.55
8341	⅞x4¼	1.75
8342	⅞x4¾	2.00
8343	⅞x5¼	2.10

CAP TRIM.



Price per 100 lineal feet.

No.	Size.	Yellow Pine
8393	1⅜x2½	$2.18
8394	⅞x4½	2.00
8395	⅜x½	.30
8396	1⅜x2¾	1.66
8397	⅞x5	2.20
8398	⅜x1½	.42
8399	1⅛x3½	2.18
8400	1⅛x2	3.48

BASE BOARDS.

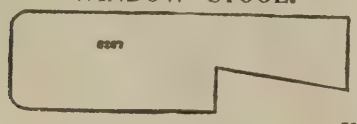
Material in this column all Yellow (or Georgia) Pine.

No.	Size	Yellow Pine
8384	$\frac{7}{16}$x4$\frac{1}{4}$	$1.75
8386	$\frac{7}{16}$x7$\frac{1}{4}$	2.85
8426	$\frac{7}{16}$x7$\frac{1}{4}$	2.85

THREE-MEMBER BASE.

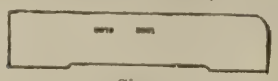
No.	Size	Yellow Pine
8420	$\frac{11}{16}$x2$\frac{1}{2}$	$1.10
8421	$\frac{11}{16}$x7$\frac{1}{2}$	2.85
8422	$\frac{1}{2}$ x $\frac{1}{4}$	.30

WINDOW STOOL.



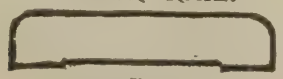
No.	Size	Yellow Pine
8267	1$\frac{1}{16}$x3$\frac{1}{4}$	$2.50

WINDOW APRON.



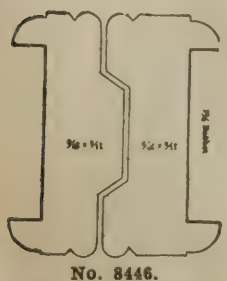
No.	Size	Yellow Pine
8379	1$\frac{3}{16}$x3$\frac{1}{4}$	Price per 100 lineal feet....$1.58

CHAIR RAIL.

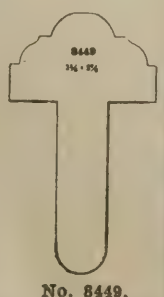


No.	Size	Yellow Pine
8309	$\frac{7}{16}$x4$\frac{1}{4}$	Price per 100 lineal feet....$1.75

SLIDING AND FOLDING DOOR ASTRAGALS.



No. 8446.

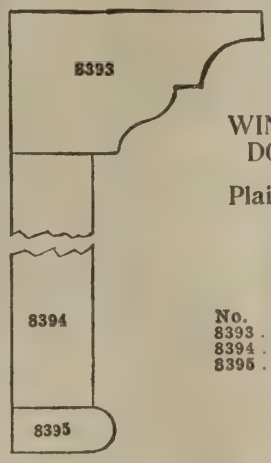


No. 8449.

No. 8446—Sliding Door Astragal, Yellow Pine, for 1$\frac{3}{8}$ Doors, 8 feet length. Price per pair..$0.50
No. 8449—Folding Door Astragal, Yellow Pine, for 1$\frac{3}{8}$ Door, 8 feet length. Price per pair..$0.25

FINISH YOUR HOME IN BEAUTIFUL OAK.

Material in these columns all Plain Sawed Red Oak.



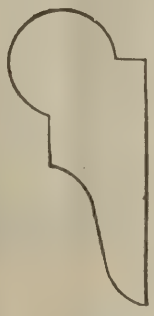
WINDOW AND DOOR TRIM.

Plain Red Oak

No.	Size	Price per 100 lineal feet Red Oak
8393	1$\frac{3}{16}$x2$\frac{1}{2}$	$4.09
8394	1$\frac{3}{16}$x4$\frac{1}{2}$	3.75
8395	$\frac{7}{16}$x1	0.75

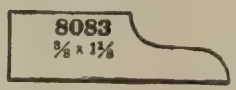
PICTURE MOULDING.

Plain Red Oak



No.	Size	Price per 100 lineal feet Red Oak
8264	$\frac{11}{16}$x1$\frac{1}{4}$	$1.50

WINDOW AND DOOR STOPS.

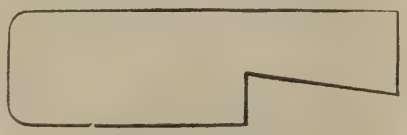


Window and Door Stop.

We carry in stock Door and Window Stops in plain Red Oak. Prices are per 100 lineal feet.

No.	Size	Price
8096	$\frac{7}{16}$x1$\frac{3}{8}$	Per 100 feet....$0.90
8095	$\frac{7}{16}$x1$\frac{1}{4}$	Per 100 feet.... 1.20

WINDOW STOOL.

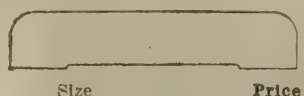


Plain Red Oak.

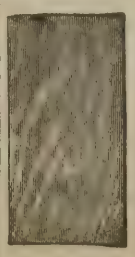
No.	Size	Price
8267	1$\frac{1}{16}$x3$\frac{1}{4}$	$4.95

CASINGS.

Plain Red Oak



No.	Size	Price
8309	1$\frac{3}{16}$x4$\frac{1}{4}$	Per 100 feet..$3.56

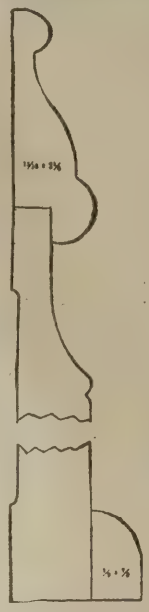


OAK BASE BLOCKS.

Plain Red Oak

No. 10-A-159.

	Price each
1$\frac{1}{16}$x4$\frac{1}{4}$x11..	$0.07



BASE.

The illustration at the left shows a modern design made up of three members. It is 9$\frac{1}{2}$ inches high over all when set up. We furnish each part separately. We carry this in stock in the various woods.

No.	Size	Price per 100 feet Red Oak
8420	1$\frac{11}{16}$x2$\frac{1}{2}$	$2.07
8421	1$\frac{11}{16}$x7$\frac{1}{2}$	6.11
8422	$\frac{7}{16}$x$\frac{7}{8}$	0.75

COVE MOULDING.

Plain Red Oak

No. 8060.

Cove Moulding is carried in stock in Plain Red Oak. Price is per 100 lineal feet.
Plain Red Oak, $\frac{3}{4}$x$\frac{3}{4}$.....$0.75

QUARTER ROUND.

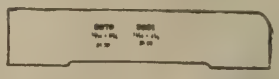
Plain Red Oak

No. 8065.

Size	Price
$\frac{3}{4}$x$\frac{3}{4}$	Per 100 lineal feet.....$0.75

WINDOW APRON.

Plain Red Oak



No.	Size	Price
8379	1$\frac{3}{16}$x3$\frac{1}{4}$	$3.20

OAK CORNER BEADS.

Plain Red Oak

No. 10-A-160.

Corner Beads, round turned, 1$\frac{3}{8}$x4.....$0.13

OAK BASE CORNERS.

Plain Red Oak

No. 10-A-161.

1$\frac{3}{8}$x12 or 14, price per 100.....$3.50

PLAIN RED OAK DOOR JAMBS.

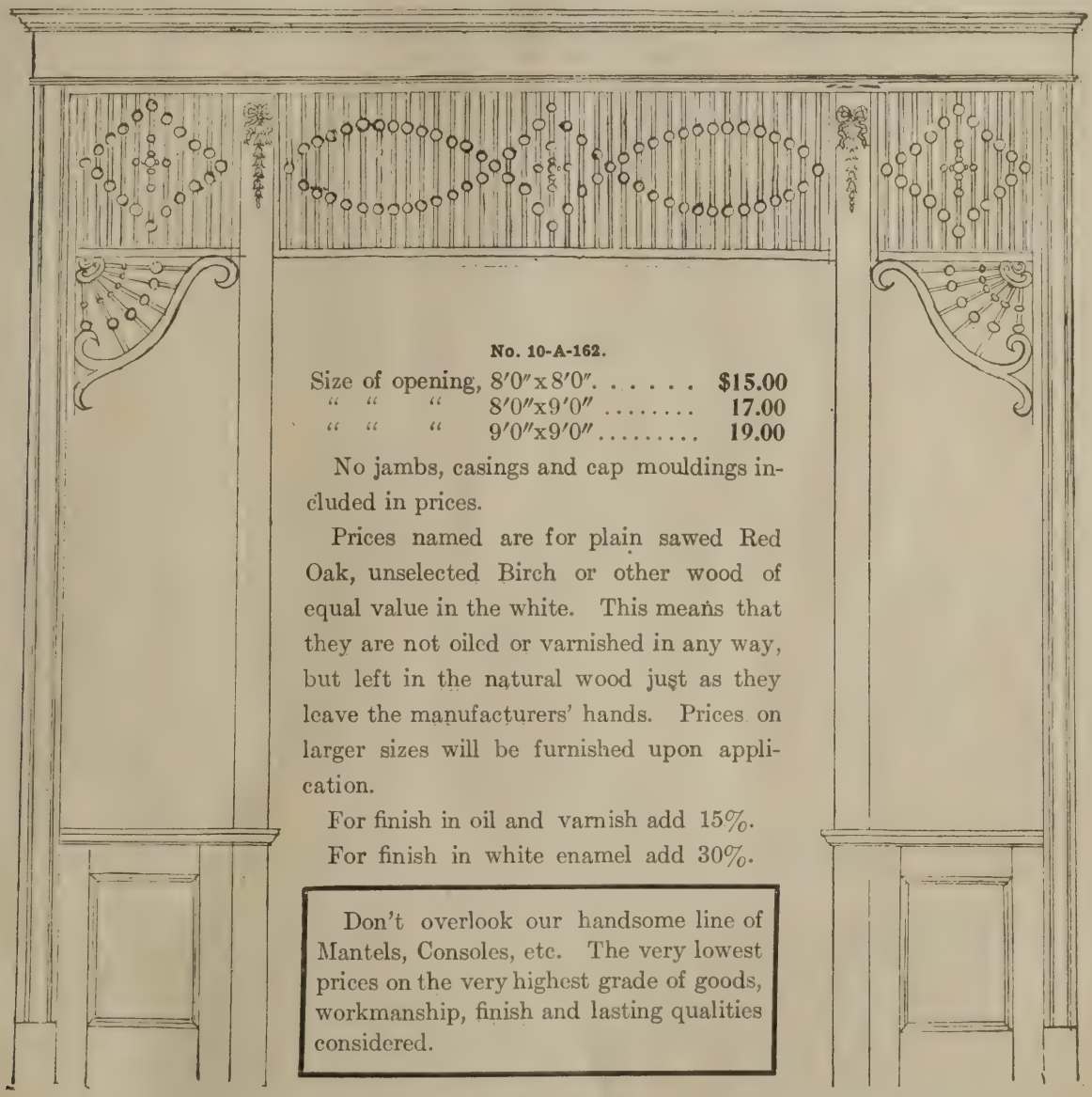
No. 10-A-149—Inside Jambs for 2x4 Studding, opening 3x7 or smaller, Red Oak.....$0.85

COLONNADES AND GRILLEWORK

Low Prices—High Quality.

There is nothing that will enhance the beauty of an interior as much as a Colonnade or Grillework. It adds beauty to the entire interior finish and gives an air of refinement and culture that cannot be gained by any other interior decoration. Our colonnades and grillework are of the very best manufacture and finish and the prices are so low that it is needless to be without them.

In all instances prices are for plain sawed Red Oak, unselected Birch, Ash or other woods of equal value in the white. This means that they are not oiled or varnished in any way but left in the natural wood so that they can be finished as the owner desires. If you desire us to finish them for you, we can have this done at an increase of 15% over the prices named. We can also furnish any design in white enamel at an increase of 30% over prices named. We show only a few sizes. Prices on larger sizes will be furnished on application.



No. 10-A-162.

Size of opening,	8′0″x8′0″.	**$15.00**
" " "	8′0″x9′0″	**17.00**
" " "	9′0″x9′0″.	**19.00**

No jambs, casings and cap mouldings included in prices.

Prices named are for plain sawed Red Oak, unselected Birch or other wood of equal value in the white. This means that they are not oiled or varnished in any way, but left in the natural wood just as they leave the manufacturers' hands. Prices on larger sizes will be furnished upon application.

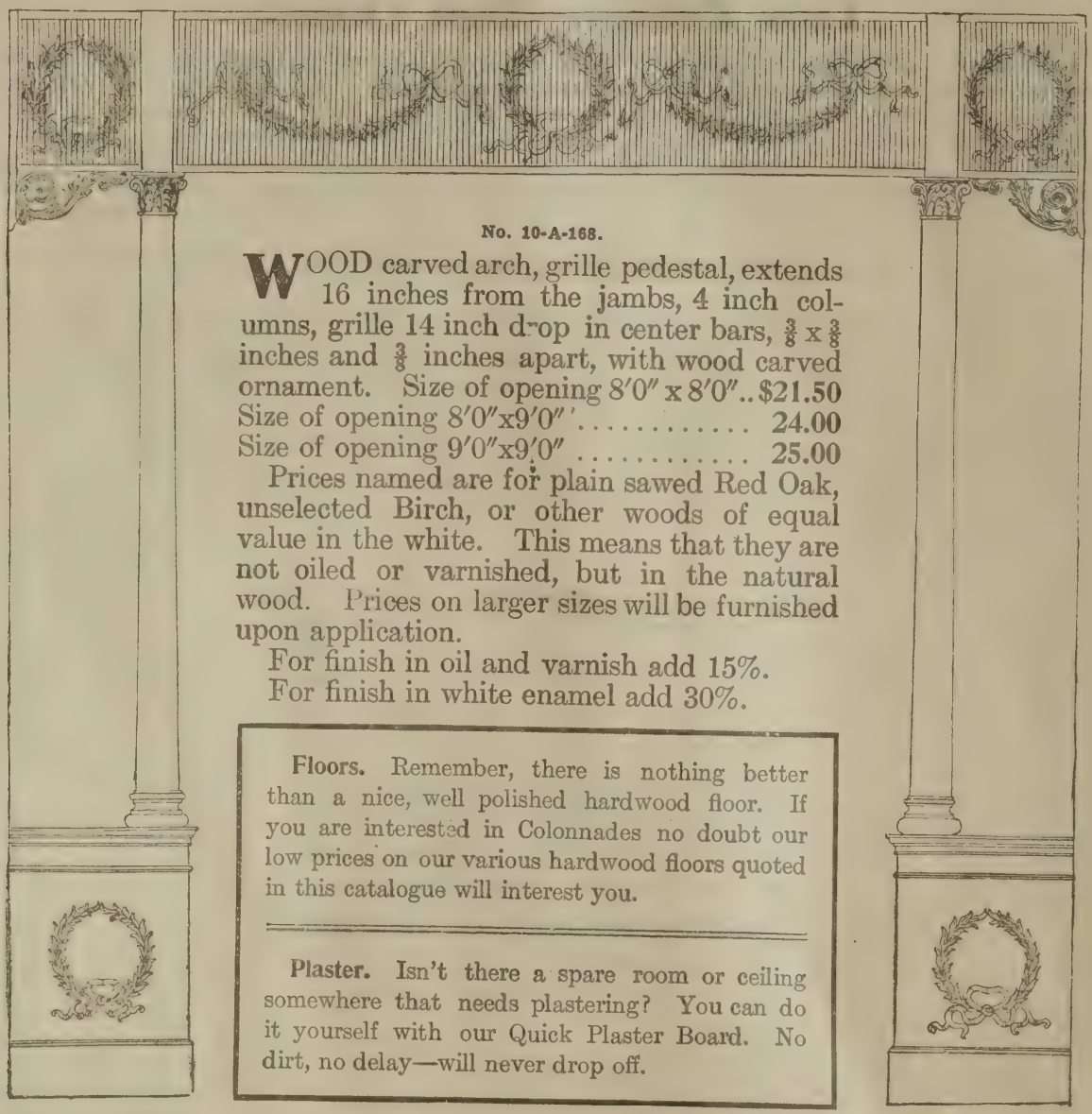
For finish in oil and varnish add 15%.

For finish in white enamel add 30%.

Don't overlook our handsome line of Mantels, Consoles, etc. The very lowest prices on the very highest grade of goods, workmanship, finish and lasting qualities considered.

No. 10-A-163. Up to 4 ft. wide, **$3.30.** Up to 5 ft. wide, **$3.70.** Up to 6 ft. wide, **$4.45.**

COLONNADES AND GRILLE WORK



No. 10-A-168.

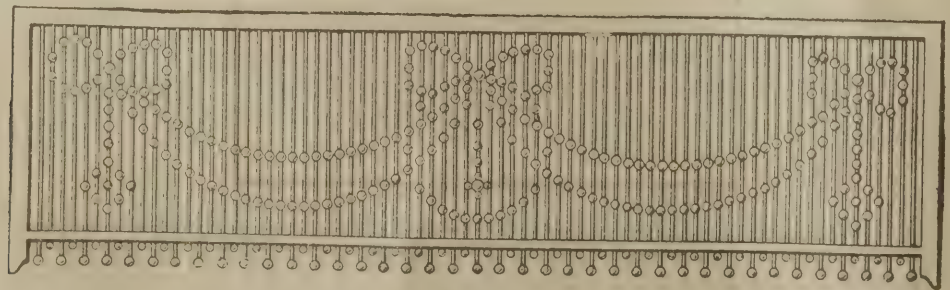
WOOD carved arch, grille pedestal, extends 16 inches from the jambs, 4 inch columns, grille 14 inch drop in center bars, $\frac{3}{8}$ x $\frac{3}{8}$ inches and $\frac{3}{8}$ inches apart, with wood carved ornament. Size of opening 8′0″ x 8′0″..$21.50
Size of opening 8′0″x9′0″ 24.00
Size of opening 9′0″x9′0″ 25.00

Prices named are for plain sawed Red Oak, unselected Birch, or other woods of equal value in the white. This means that they are not oiled or varnished, but in the natural wood. Prices on larger sizes will be furnished upon application.

For finish in oil and varnish add 15%.
For finish in white enamel add 30%.

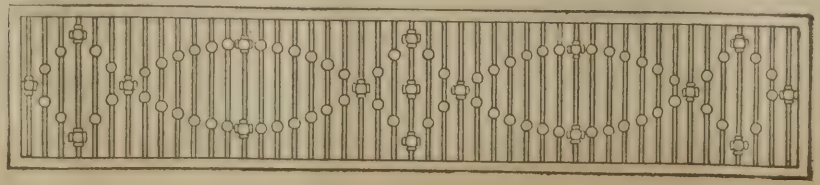
Floors. Remember, there is nothing better than a nice, well polished hardwood floor. If you are interested in Colonnades no doubt our low prices on our various hardwood floors quoted in this catalogue will interest you.

Plaster. Isn't there a spare room or ceiling somewhere that needs plastering? You can do it yourself with our Quick Plaster Board. No dirt, no delay—will never drop off.



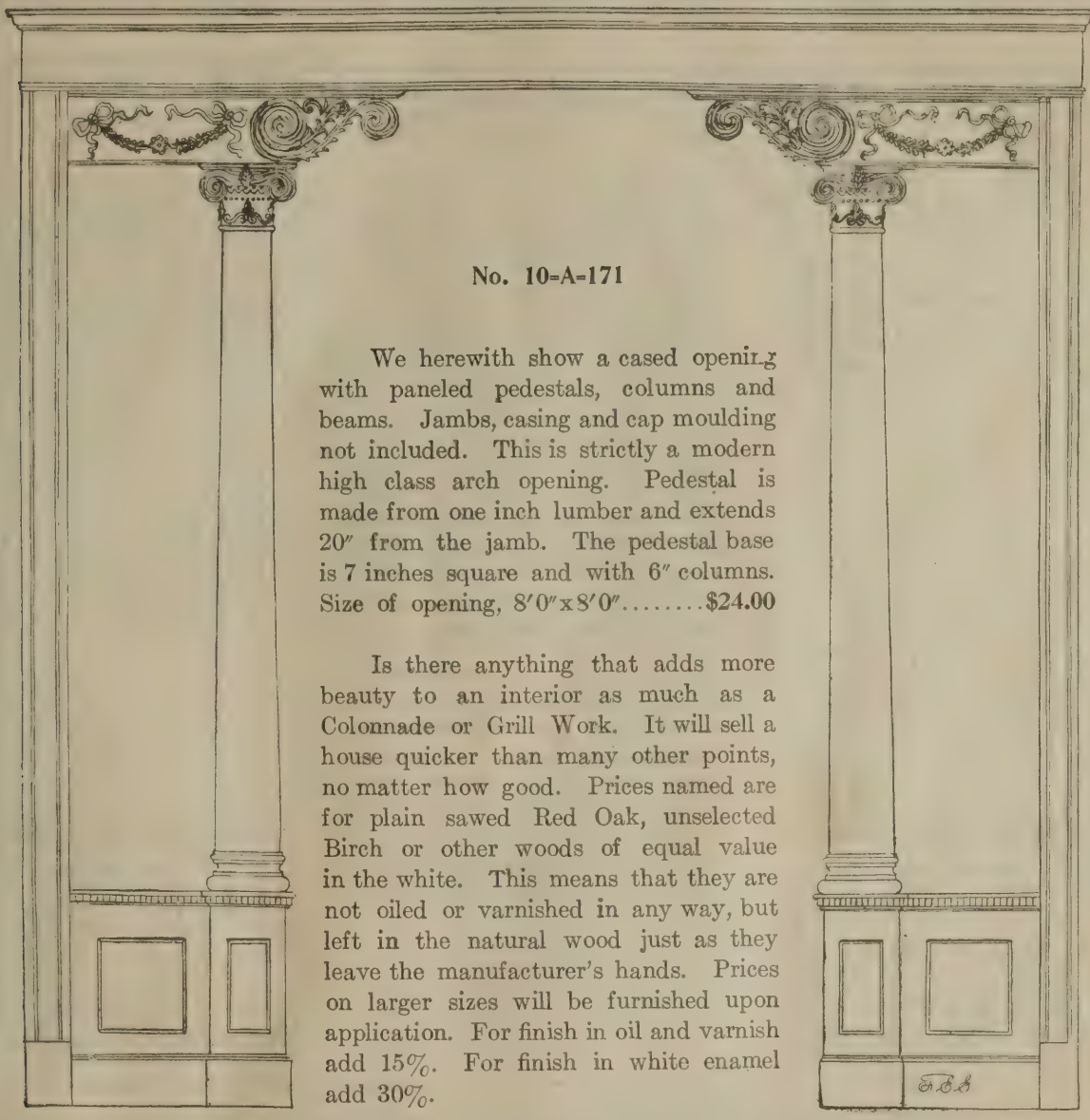
No. 10-A-169. Up to 4 ft. wide, $2.50. Up to 5 ft. wide, $3.10. Up to 6 ft. wide, $3.70.

No. 10-A-170. Up to 4 ft. wide, $2.65.



Up to 5 ft. wide, $3.00. Up to 6 ft. wide, $3.30.

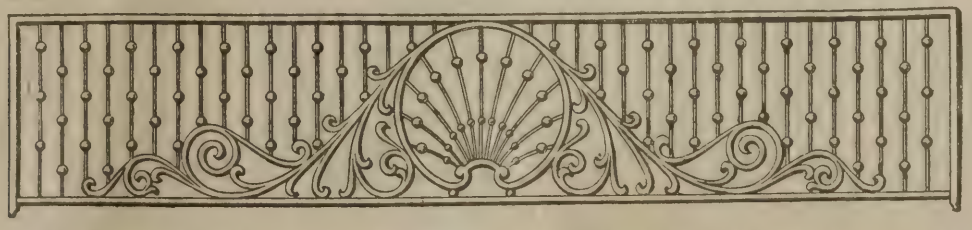
COLONNADES AND GRILLE WORK



No. 10-A-171

We herewith show a cased opening with paneled pedestals, columns and beams. Jambs, casing and cap moulding not included. This is strictly a modern high class arch opening. Pedestal is made from one inch lumber and extends 20″ from the jamb. The pedestal base is 7 inches square and with 6″ columns. Size of opening, 8′0″x8′0″.....**$24.00**

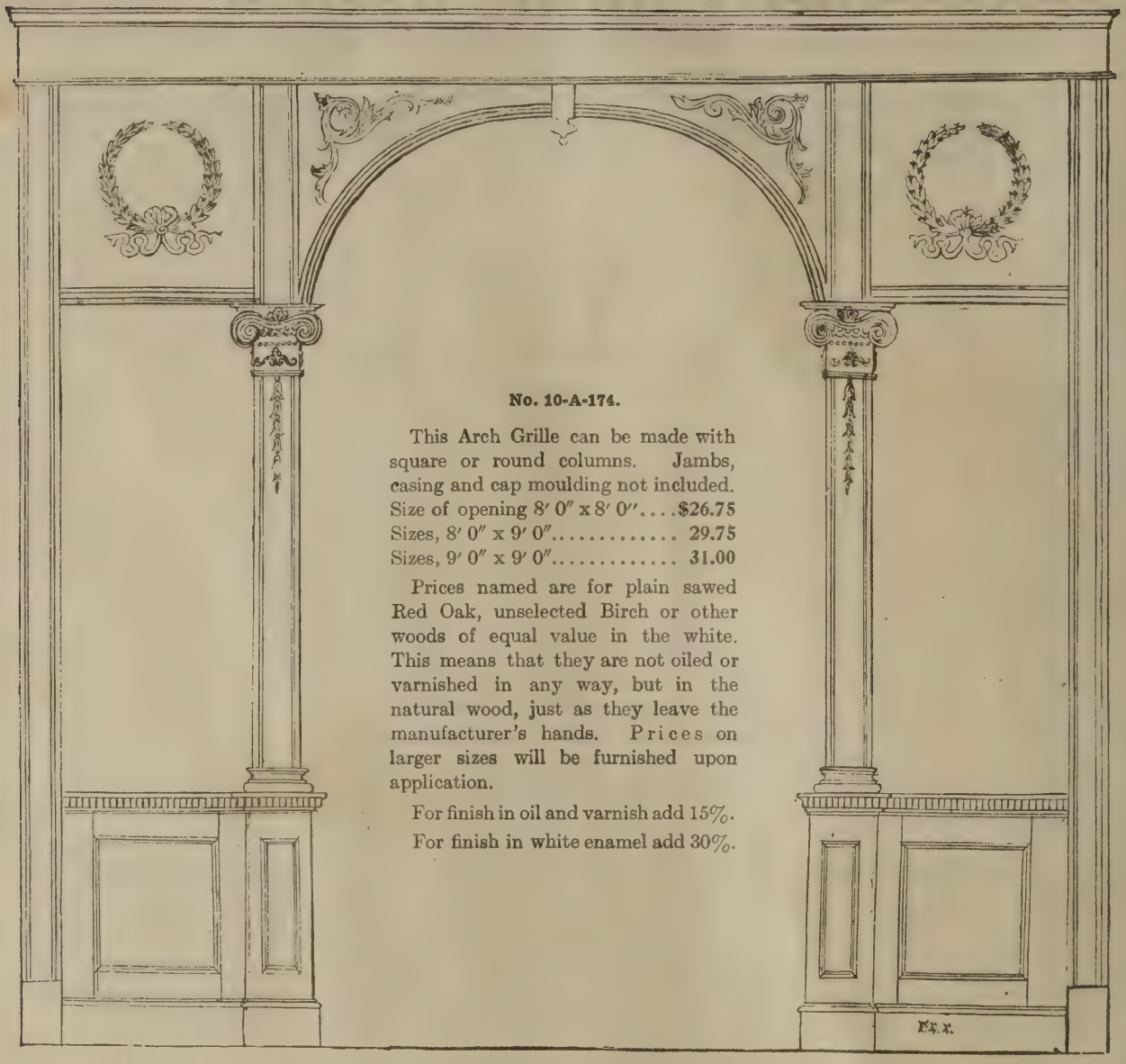
Is there anything that adds more beauty to an interior as much as a Colonnade or Grill Work. It will sell a house quicker than many other points, no matter how good. Prices named are for plain sawed Red Oak, unselected Birch or other woods of equal value in the white. This means that they are not oiled or varnished in any way, but left in the natural wood just as they leave the manufacturer's hands. Prices on larger sizes will be furnished upon application. For finish in oil and varnish add 15%. For finish in white enamel add 30%.



No. 10-A-172—Up to 4 ft. wide, **$2.10.** Up to 5 ft. wide, **$2.70.** Up to 6 ft. wide, **$3.30.**

No. 10-A-173—Up to 4 ft. wide, **$5.35.** Up to 5 ft. wide, **$6.15.** Up to 6 ft. wide, **$6.95.**

COLONNADES AND GRILLE WORK



No. 10-A-174.

This Arch Grille can be made with square or round columns. Jambs, casing and cap moulding not included.
Size of opening 8′ 0″ x 8′ 0″....$26.75
Sizes, 8′ 0″ x 9′ 0″..... 29.75
Sizes, 9′ 0″ x 9′ 0″..... 31.00

Prices named are for plain sawed Red Oak, unselected Birch or other woods of equal value in the white. This means that they are not oiled or varnished in any way, but in the natural wood, just as they leave the manufacturer's hands. Prices on larger sizes will be furnished upon application.

For finish in oil and varnish add 15%.

For finish in white enamel add 30%.

No. 10-A-175.

Up to 4 ft. wide, $2.70 Up to 5 ft. wide, $3.40 Up to 6 ft. wide, $4.10

No. 10-A-176.

Up to 4 ft. wide.....$5.95 Up to 5 ft. wide.....$6.70 Up to 6 ft. wide.....$8.00

"Quick Plaster" Board

To find a practical and economical material to take the place of lath and plaster has been a problem that has taken up no little time of those directly interested in producing building material. While there are various substitutes for lath and plaster on the market, in most instances the price is either out of reach, which puts it far beyond the cost of lath and plaster, or the material is unsatisfactory. Not so, however, with our new combination of lath and sheathing paper, appropriately named by us **"QUICK PLASTER" BOARD.**

Do not confuse this with any other form or style of wall board heretofore placed on the market. There is no equal, and a careful study of this subject with the material in hand will convince the most skeptical of its exceptional merits and its value as a building material.

It's Use

"Quick Plaster" Board is used by progressive, up-to-date home builders, contractors and real-estate dealers in place of lath and plaster. It gives practically an air tight wall. "Quick Plaster" Board is a continuous deadener of sound and a non-conductor of heat aud cold and is a non-crackable material.

What It Is

"Quick Plaster" Board comes in sheets four feet wide and four feet long, properly crated. Can be nailed to studding spaced either 12", 16" or 24" on centers. The flat surface on which the paper, paint or whitewash is to be applied is a strong, durable fibrous paper; therefore, the face of the wall is paper. Upon the back of this has been placed a thick, substantial layer of hot asphalt mastic and then another layer of paper, and on top of this more mastic, and into this mastic, while hot, regular building lath, about three-eighths of an inch apart, have been embedded into the hot solution at the enormous pressure of 500 lbs. to the square inch, thus assuring a positive adhesion, and when finished making the parts rigid and strengthening all component parts. Think of a floor withstanding a weight of 500 lbs. to the square inch, equaling the weight of 36 tons on the square foot. There is no doubt about "Quick Plaster" Board's durability—no doubt about "Quick Plaster" Board's weather defying qualities—no doubt about "Quick Plaster" Board's economy.

"QUICK PLASTER BOARD."

Illustration Shows the Construction of "Quick Plaster" Board—Lath Imbedded in Asphalt Mastic which is Surfaced with Sized Card Board Ready for Paper or Paint Decoration.

How It Is Applied

"Quick Plaster" Board is easy to handle. It is nailed with the lath side directly to the studding, leaving a smooth paper to be the face; or if a cement wall is to be covered, it is nailed directly to the furring strips; or if a brick, stone or cement block wall is to be covered, directly to the furriug strips, requiring no special or intricate tools and any one who can drive a nail can apply it. Use an ordinary finishing wire nail, 4-penny or a 4-penny lath nail, driving nails every other lath at every other studding. It can be cut into any shape, to fit any corner. It can be bent to fit any curve. It can not possibly drop off or crack. It is well to leave a space of ⅛-in. between the joints to allow for settling of the building if the building is new. Over these joints there can be pasted a strip of manila paper about one inch wide, using ordinary wall paper paste for this purpose, and the kalsomine, paint or wall paper applied over the surface for the final decoration. There is no product in the world to-day upon which wall paper will stick better than on "Quick Plaster" Board.

Why Superior to Lath and Plaster

Because it cannot crack, it will have no unsightly holes resulting from driviug a nail or screw, and where there is no telling when the hole is going to stop. Mice and vermin will not nest in it because it contains no hair and the asphalt mastic is objectionable to them.

Because you do not have to wait for the plasterer, pay him his enormous price and put up with all the dirt and mess on the job.

Because you do not have to wait for warm weather as there is no danger of "Quick Plaster" Board freezing. It does not freeze. It can be put on in the coldest day in winter and in the warmest day in summer. It can be put on by lamp light or by day light.

Because there is no delay occasioned by waiting for "Quick Plaster" Board to dry. It is always dry, it is always ready the minute you apply it. No sizing is necessary, and unlike plaster, where paper cannot be applied on a green wall, wall paper can be immediately applied to "Quick Plaster" Board and will stick and stay stuck forever

"Quick Plaster" Board is an ideal combination and there is none better for any price Our price on "Quick Plaster" Board per square covering 100 sq. ft., 4x4, is..... **$2.50**

MT. AIRY, OHIO.

Chicago House Wrecking Co., Chicago, Ill.:

Gentlemen—The two cottages No. 102 you sent me six weeks ago are completed and rented. You actually sent more than I bargained for and the elegant appearance of the inside trim, hardware and especially the **Patent Plaster Board,** has been praised by everyone who has seen them. Your claim of saving purchasers 50% when buying from you has proved correct in my case.

Signed, M. SCHROEDER, Box 29.

The above letter refers to our House Design No. 102, in which Mr. Schroeder used our **"Quick Plaster" Board** throughout.

WOOD MANTELS, MANTEL GRATES

A Splendid Line At Unheard Of Low Prices

Consoles, Art Tile, Built in Side-Boards

Extraordinary Line of Common Sense, Up-to-Date, High Value, Durable and Strong Mantels, Consoles, etc., etc.

Compare our prices, but do not be governed by the price alone, the quality is to be counted in. **We positively say our prices on this class of material, quality considered, are the lowest.**

Our Mantels and Consoles are constructed of the best grade of lumber suitable for the purpose, **are manufactured by the most skilful workmen.** They contain the latest ventilating and regulating improvements; in fact are as modern as can be furnished.

DO NOT CONFUSE our offering with the cheap, showy, "ginger-bread" stock now flooding the market. The tendency of the times is for plainness and neatness, which means less care-taking and greater lasting quality to say nothing of being much better taste.

Wherever quarter-sawed Oak is specified, **the entire mantel is of quarter-sawed Oak of the very best grade of highly figured lumber,** no veneer except on the columns, which are necessarily veneered as they cannot be quartered any other way. This applies also to brackets, the balance is solid material. Where Birch is specified the entire mantel is of Birch. The columns and veneered parts being veneered in genuine mahogany.

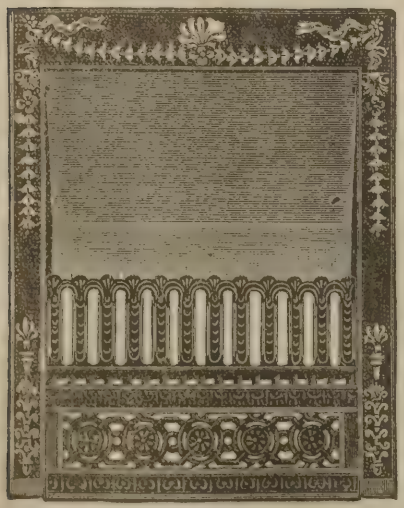
Wherever the mirror is specified beveled or plain, we furnish the very **best quality of French beveled polished plate mirror.** Where plain mirror is shown and beveled plate is desired we will be pleased to furnish it for the small additional cost of 75 cents extra, beveled either on three or four sides.

The finish on all mantels and consoles is **hand rubbed and hand polished piano finish,** the best that can be obtained. The finishing material used being the very best.

All carvings are strictly **wood carvings,** no cheap composition carving whatever.

We absolutely guarantee that they are manufactured in the very best style, workmanship, quality and finish, and guarantee safe delivery.

Grate Outfit No. 1.



Interior View of 10-A-1351 Combination Grate.

Showing how Basket hangs on Frame.

No. 10-A-1351. Combination grate, wrought iron finish, without summer front.

Price, Grate only **$2.35**

Shipping weight, 85 pounds.

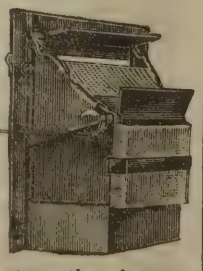
Grate Outfit No. 2.

Interior View of No. 10 - A - 1052 Chicago Mounted Buckeye Grate.

No. 10-A-1052. Chicago Mounted Buckeye Grate, wrought iron finish.

Price, grate only **$7.90**

Shipping weight, 200 pounds.



Side View of No. 10-A-1052 Chicago Mounted Buckeye Grate, showing double draft damper arrangement.

A good serviceable double draft grate, single basket front, suitable for soft coal, hard coal or wood; has tile fire back, iron sides to air chamber which prevent burning out, with dumping bottom.

For a medium priced fireplace, they have no equal in either finish, construction or weight.

All made with our patented loose cross piece, which prevents cracking or warping.

All mounted ready for use, one grate in a case.

Front View of No. 10-A-1351 Combination Grate.

Showing Summer Front in Position.

24½" wide, 30½" high, fire basket 20" wide, 7" or 9" deep. **Outfit No. 1** consists of:

Fireplace—No. 10-A-1351. Combination grate; black wrought iron finish; 24½" wide, 30½" high, with 20" Berlin black basket, 7" or 9" deep, without summer front.

Facing—Best quality enameled tile (any color).

Summer Front, add **$1.00** extra.

This Beautiful Bevel Plate Mirror Mantel

No. 10-A-6981

$32.90

This price is for woodwork and mirror only.

Beautiful quarter sawed, polished piano finish, bevel plate mirror.

87″ high and 60″ wide, with wall plates to set 5′. The opening for the tile is 42″ high x 39″ wide.

The beautiful pilasters are of highly figured quarter sawed veneer—balance of the mantel is solid quarter sawed, best grade figured lumber. A fit ornament for the finest parlor.

This mantel can also be furnished in Birch, Mahogany finish in which event the pilasters and veneered parts are veneered in genuine Mahogany.

The tendency of the time is for plainness and neatness, and we believe we have succeeded in making this idea apply to the mantel illustrated on this page. It is not severely plain in the fullest sense of the word, not entirely without such ornaments as will increase the attractiveness of the modern home. The solid appearing, swell shaped pilasters are their chief ornament acting as a support, as it were, for the wide and appropriate shelves.

Remember our price includes beveled plate mirror; if plain mirror is acceptable deduct 75 cents from above price.

STOCK WOODS

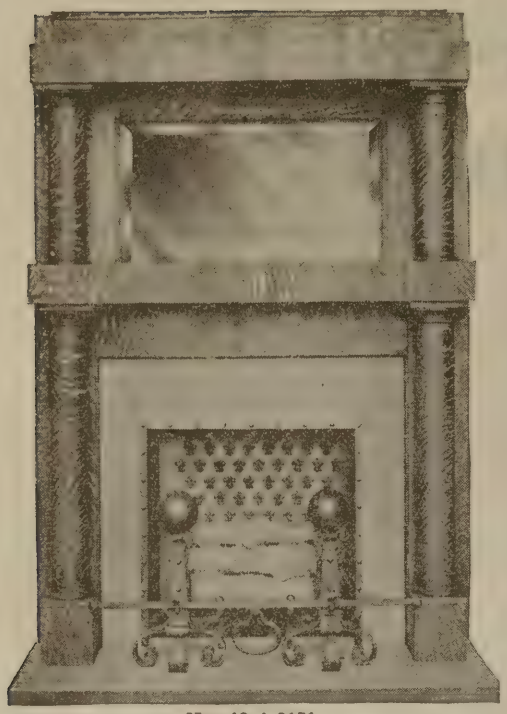
Quartered Oak and Birch.

Height, 87 inches.
Width, 60 inches.
Tile Opening, 42x39 inches.
Projection, 3 inches.
Mirror, 20x36 inches.
Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.

No. 10A 6981	Mantel with Woodwork and Mirror, only	$32.90
No. 10A 6982	With best quality enameled tile for the hearth and facing and No. 1 Grate Outfit, which consists of combination grate	$42.25
No. 10A 6983	With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate, including summer front	$48.40
No. 10A 6984	With tile as above described and No. 3 Mounted Gas Grate	$48.50

Mantels furnished only with Grate Outfits as shown on page 52



No. 10-A-8151.

$29.90

Here is a beautiful quarter sawed polished beveled plate mirror mantel, built of first-class solid quarter sawed oak, except the columns which are veneered and manufactured in superior workmanship. This is no cheap, flashy truck although the price is so low that it may cause the impression— the article itself will prove a pleasant surprise.

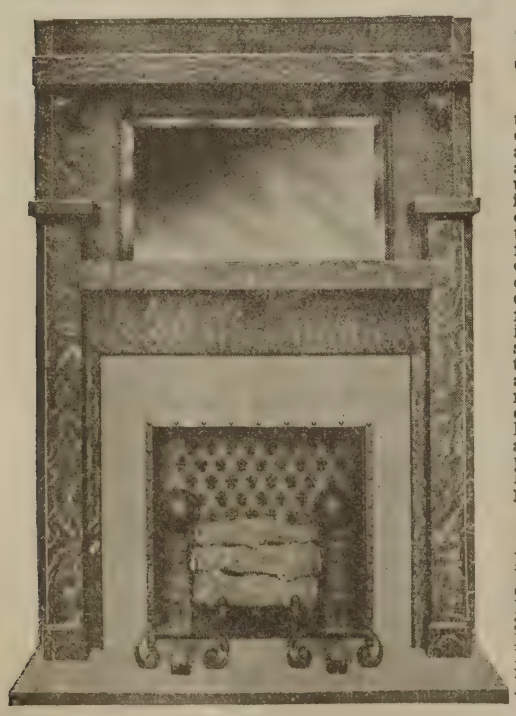
Stock Woods—
Quartered Oak and Birch.

Height, 90 Inches. Width, 60 Inches. Tile Opening, 42x39 Inches. Projection, 3 Inches Bevel Plate Mirror, 20x36 Inches. Veneered Columns, 5 Inches. Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.

No. 10-A-8151. Mantel with Woodwork and Mirror, only **$29.90**
No. 10-A-8152. With best quality enameled tile for the hearth and facing and No. 1 Grate Outfit, which consists of combination grate **$39.25**
No. 10-A-8153. With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front **$45.40**
No. 10-A-8154. With tile as above described and No. 3 Mounted Gas Grate.....**$45.50**

Mantels furnished only with Grate Outfits as shown on page 52.



No. 10-A-8241.

$27.19

This is an extremely popular design, strictly along mission lines and in view of the unusual popularity of mission style of architecture, there is a demand for mantels of this class. It is built of quarter sawed oak, handsomely finished. Material is solid quarter sawed oak except the brackets, which are veneered for reasons previously explained. This is high grade stock at extremely low prices. Mirror heavy beveled plate.

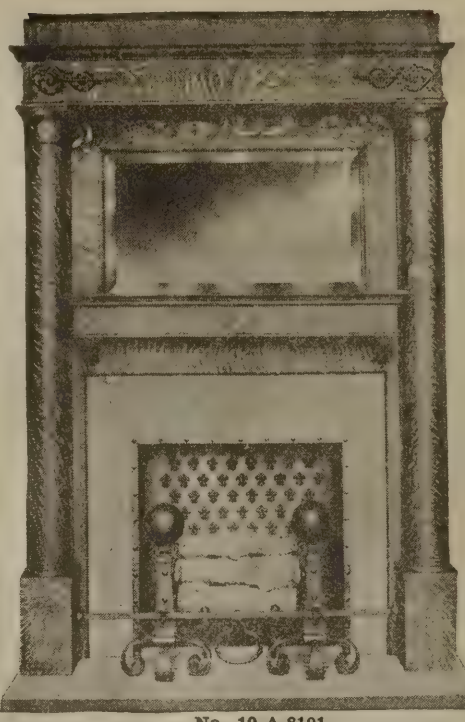
Stock Woods—
Quartered Oak and Birch.

Height, 86 Inches. Width, 60 In. Tile Opening, 42 x 39 Inches. Projection 3 Inches. Bevel Plate Mirror, 20x36 Inches. Oval Mirror, 75 cts. Extra.

All Best Rubbed and Polished Piano Finish.

No. 10-A-8241. Mantel with Woodwork and Mirror, only **$27.19**
No. 10-A-8242. With best quality enameled tile for the hearth and facing and No. 1 Grate Outfit, which consists of combination grate.....**$36.54**
o. 10-A-8243. With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front.....**$42.69**
o. 10-A-8244. With tile as above described and No. 3 Mounted Gas Grate.....**$42.79**

Mantels furnished only with Grate Outfits as shown on page 52.



No. 10-A-8191.

$28.85

This cut will show a very beautiful solid quarter sawed (except columns) Beveled Plate Mirror, handsomely finished mantel. None better made as far as material is concerned. Carving wood, no cheap composition material. Excellent design throughout and an ornament to any room. Will please the most particular.

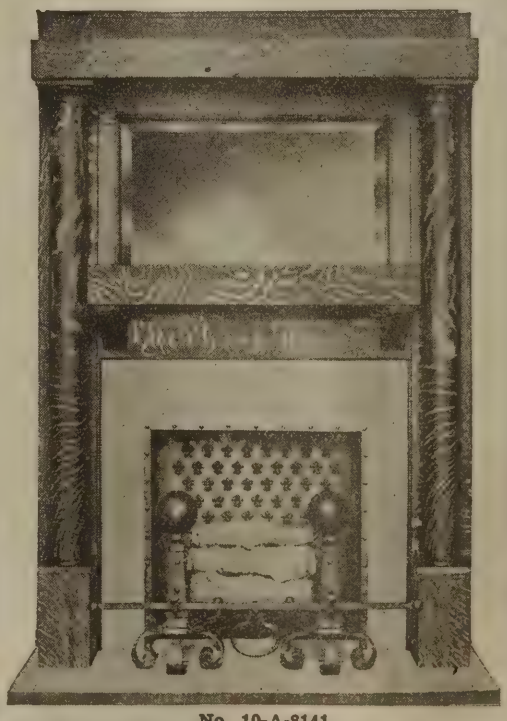
Stock Woods—
Quartered Oak and Birch.

Height, 90 Inches. Width, 60 Inches. Tile Opening, 42x39 Inches. Projection, 3 Inches. Bevel Plate Mirror, 20x36 Inches. Veneered Columns, 5 Inches. Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.

No. 10-A-8191. Mantel with Woodwork and Mirror, only **$28.85**
No. 10-A-8192. With best quality enameled tile for the hearth and facing and No. 1 Grate Outfit, which consists of combination grate.....**$38.20**
No. 10-A-8193. With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front.....**$44.35**
No. 10-A-8194. With tile as above described and No. 3 Mounted Gas Grate.....**$44.45**

Mantels furnished only with Grate Outfits as shown on page 52.



No. 10-A-8141.

$28.95

We show here a handsome beveled plate mirror mantel that is a combination style, suitable with any kind of interior trim, mission or otherwise Handsome, massive shelves, supported by large columns 5 inches in diameter on good-sized square base. All material quarter sawed except brackets and columns which are veneered for reasons outlined on opening page of this department. This mantel will look well and add beauty to the interior finish of any house.

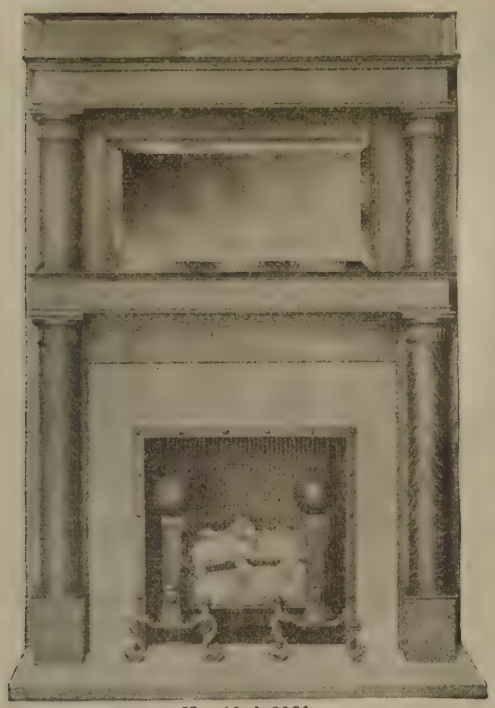
Stock Woods—
Quartered Oak and Birch.

Height, 90 Inches. Width, 60 Inches. Tile Opening, 42x39 Inches. Projection, 3 Inches. Bevel Plate Mirror, 20x36 Inches. Veneered Columns, 5 Inches. Oval Mirror, 75 cents Extra.

All Best Rubbed and Polished Piano Finish.

No. 10-A-8141. Mantel with Woodwork and Mirror, only **$28.95**
No. 10-A-8142. With best quality enameled tile for the hearth and facing and No. 1 Grate Outfit, which consists of combination grate.....**$38.30**
No. 10-A-8143. With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front.....**$44.45**
No. 10-A-8144. With tile as above described and No. 3 Mounted Gas Grate.....**$44.55**

Mantels furnished only with Grate Outfits as shown on page 52.



No. 10-A-8061.

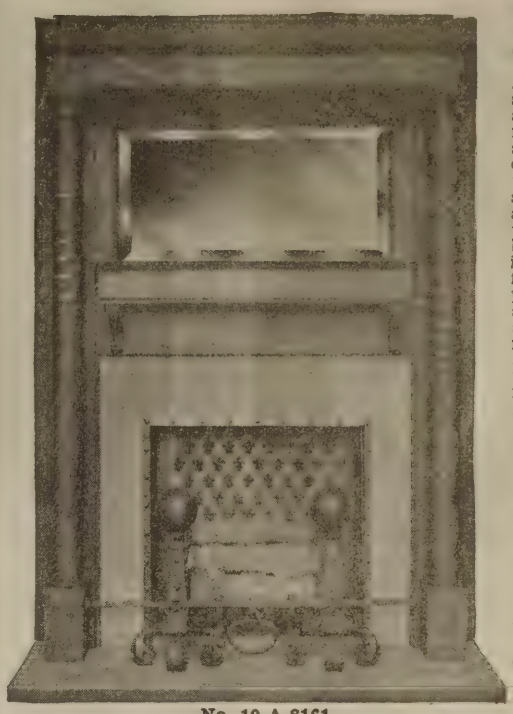
$24.50

For the price, we can confidently say there is no mantel on the market in the United States that can compare favorably with this number. Built of select grained woods, most of which looks like quarter sawed. The columns are handsomely veneered oak quarter sawed and are 5 inches in diameter. The mirror is best French bevel plate, well set, and all in all this mantel would be a decided bargain at a great deal higher price than we have placed on it.

Stock Woods—
Oak and Birch.
Height, 87 inches.
Width, 60 inches.
Tile Opening, 42x39 inches.
Projection, 3 in.
Bevel Plate Mirror, 18x36 inches.
Veneered Columns, 5 inches.
Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.

No. 10-A-8061. Mantel with Woodwork and Mirror, only.....**$24.50**
No. 10-A-8062. With best quality enameled tile for the hearth and facing No. 1 Grate Outfit, which consists of combination grate.....**$33.85**
No. 10-A-8063. With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate, including summer front.....**$40.00**
No. 10-A-8064. With the tile as above described and No. 3 Mounted Gas Grate.....**$40.00**
Mantels furnished only with Grate Outfits, as shown on page 52.



No. 10-A-8161.

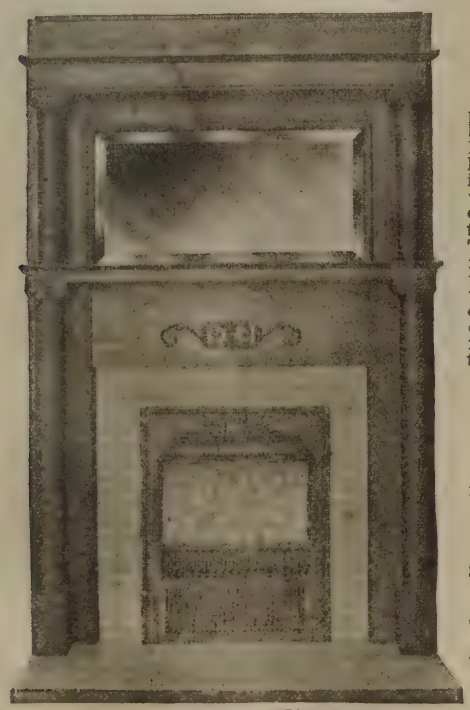
$22.00

A neat, well-designed, well-balanced mantel, made from best selected flat grained woods, except the columns and shelf fronts, which are quarter sawed veneered of the best figure. The illustration speaks for itself and the price will clinch any argument against it. Workmanship as good as in the highest priced and the finish will please the most fastidious.

Stock Woods—
Oak and Birch.
Height, 85 in.
Width, 60 in.
Tile Opening, 42x39 inches.
Projection, 3 in.
Bevel Plate Mirror, 18x36 inches.
Veneered Columns, 4 inches.
Swelled Shelf Veneered.
Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.

No. 10-A-8161. Mantel with Woodwork and Mirror, only.....**$22.00**
No. 10-A-8162. With best quality enamel tile for the hearth and facing No. 1 Grate Outfit, which consists of combination grate.....**$31.35**
No. 10-A-8163. With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate, including summer front.....**$37.50**
No. 10-A-8164. With tile as above described and No. 3 Mounted Gas Grate.....**$37.60**
Mantels furnished only with Grate Outfits, as shown on page 52.



No. 10-A-6751.

$17.90

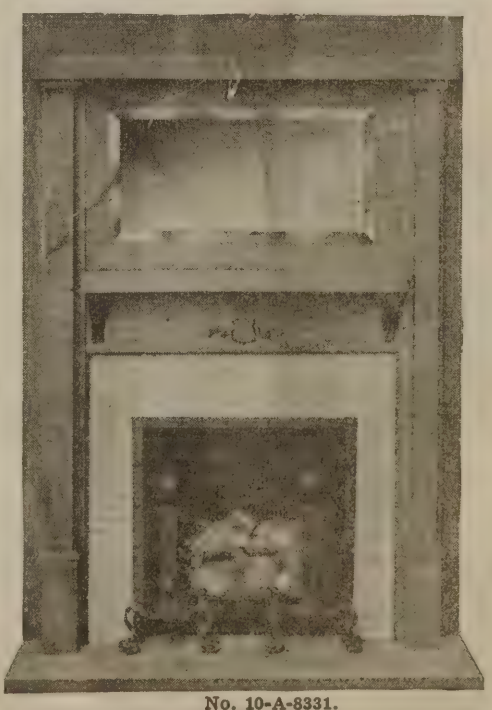
For the price, there is positively no better bargain in the market. Note the beautiful outline, handsome carving, which is solid wood, no makeshift compositson stuff, and the bevel plate mirror. This mantel is made from best selected woods, except the columns, which are veneered. It is a style especially suited for moderate priced cottages.

Stock Woods—
Oak and Birch.

Height, 82 inches.
Width, 54 inches.
Tile Opening, 36x36 inches.
Projection, 2½ inches.
Bevel Plate Mirror, 18x36 inches.
Veneered Columns, 3½ inches.
Wood Carved Caps.
Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.

No. 10-A-6751. Mantel with Woodwork and Mirror, only.....**$17.90**
No. 10-A-6752. With best quality enameled tile for the hearth and facing and No. 1 Granite Outfit, which consists of combination grate.....**$27.25**
No. 10-A-6753. With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front.....**$33.40**
No. 10-A-6754. With tile as above described and No. 3 Mounted Gas Grate.....**$33.50**
Mantels furnished only with Grate Outfits, as shown on page 52.



No. 10-A-8331.

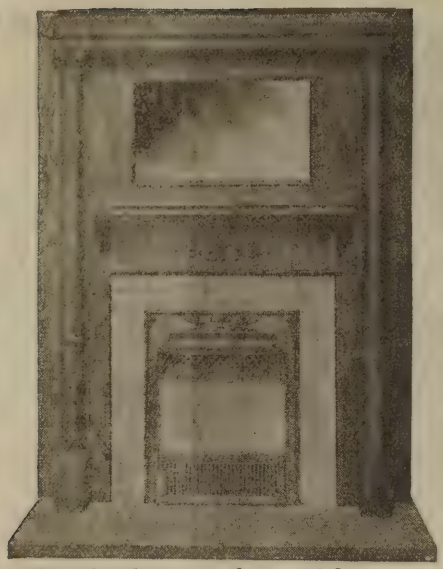
$17.65

This mantel positively defies all competition. Specially designed, manufactured to meet the heavy demands for mission style mantels to match up with interior mission style trim, now so deservedly popular. There is nothing cheap or gingerbread about this—just good, plain solid material finished with bevel plate mirror of appropriate size. This is hand finished and will stand close scrutiny.

Stock Woods—
Oak and Birch.
Height, 84 in.
Width, 60 in.
Tile Opening, 42x39 inches.
Projection, 3 in.
Bevel Plate Mirror, 18x36 inches.
Columns, 3 in.
Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.

No. 10-A-8331. Mantel with Woodwork and Mirror only.....**$17.65**
No. 10-A-8332. With best quality enameled tile for the hearth and facing and No. 1 Grate Outfit, which consists of combination grate.....**$27.00**
No. 10-A-8333. With tile as above described and No. 2 Grate Outfit, which consists of Chicago mounted Buckeye coal and wood grate including summer front.....**$33.15**
No. 10-A-8334. With tile as above described and No. 3 Mounted Gas Grate.....**$33.25**
Mantels furnished only with Grate Outfits, as shown on page 52.



This handsome oak mantel, quarter sawed veneered columns with solid wood carved capital ornaments; wood, not composition material; excellent design and workmanship.

STOCK WOODS—OAK AND BIRCH

Height, 79 inches.
Width, 60 inches.
Tile opening, 36x36.
Projection, 3 inches.
Plain mirror, 16x28 inches.
Columns, 3½ inches.
Oval mirror, 75 cents extra.

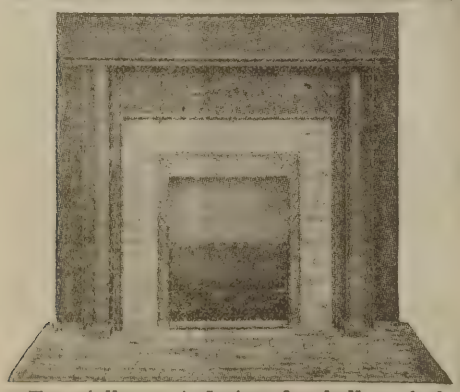
ALL BEST RUBBED AND POLISHED PIANO FINISH

No. 10-A-7701. Mantel, with woodwork and mirror only.....**$14.90**

No. 10-A-7702. With best quality enameled tile for the hearth and facing, and No. 1 grate outfit, which consists of combination grate.....**$24.25**

No. 10-A-7703. With tile, as above described, and No. 2 grate outfit, which consists of Chicago mounted Buckeye coal and wood grate, including summer front **$30.30**

No. 10-A-7704. with tile, as above described, and No. 3 mounted gas grate.**$30.40**



Especially neat design for hall or bedroom. Well made, well finished, and at right price.

PLAIN OAK—GLOSS FINISH

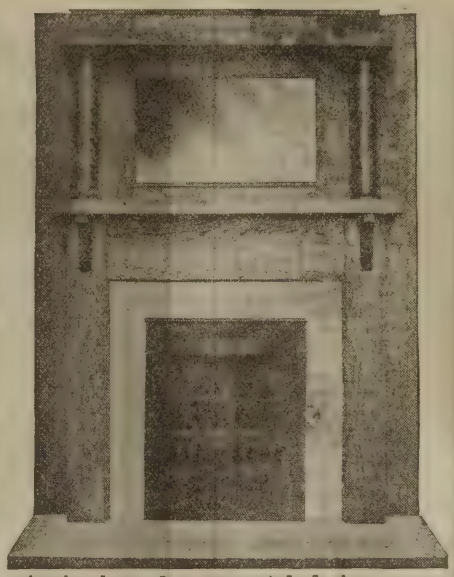
Height, 4 feet 6 inches.
Width, 4 feet 6 inches.
Tile opening, 35¾x35½ inches.
Projection, 3¼ inches.
Veneered columns, 2¾ inches.

No. 10-A-6B1. Base, with woodwork only **$4.50**

No. 10-A-6B2. With best quality enameled title for the hearth and facing, and No. 1 grate outfit, which consists of combination grate **$13.85**

No. 10-A-6B3. With tile, as above described, and No. 2 grate outfit, which consists of Chicago Mounted Buckeye coal and wood grate, including summer front.**$20.00**

No. 10-A-6B4. With tile, as above described, and No. 3 mounted gas grate.**$20.10**



A simple and ornamental design, unexcelled anywhere for the price.

STOCK WOODS—OAK AND BIRCH

Height, 79 inches.
Width, 60 inches.
Tile opening, 36x36 inches.
Projection, 3 inches.
Plain mirror, 16x28 inches.
Columns, 3½ inches.
Oval mirror, 75 cents extra.

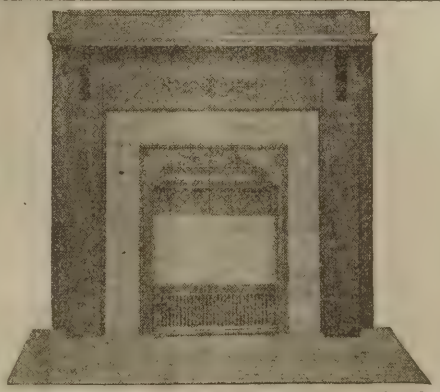
ALL BEST RUBBED AND POLISHED PIANO FINISH

No. 10-A-8021. Mantel, with woodwork and mirror only.....**$11.95**

No. 10-A-8022. With best quality enameled tile for the hearth and facing, and No. 1 grate outfit, which consists of combination grate.....**$21.30**

No. 10-A-8023. With tile, as above described, and No. 2 grate outfit, which consists of Chicago Mounted Buckeye coal and wood grate, including summer front.**$27.35**

No. 10-A-8024. With tile, as above described, and No. 3 mounted gas grate.**$27.50**



There is a growing demand for simple, straight mantel shelves. Here is one that will answer most requirements, at a price that will beat all competition.

PLAIN OAK—GLOSS FINISH

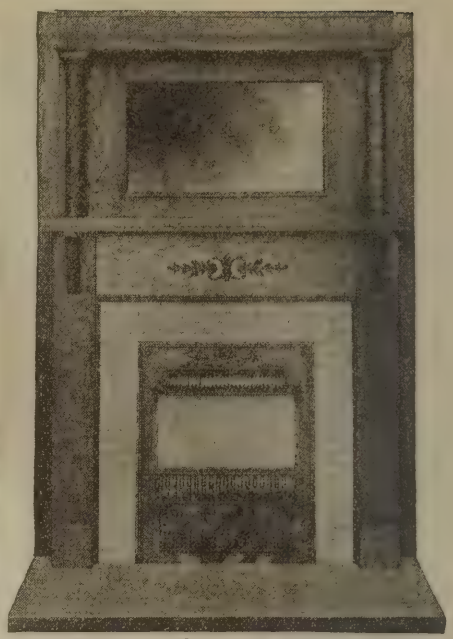
Height, 4 feet 6 inches.
Widths, 54 inches to 5 feet.

No. 10-A-774B1. Base, with woodwork only **$3.95**

No. 10-A-774B2. With best quality enameled tile for the hearth and facing, and No. 1 grate outfit, which consists of combination grate.....**$13.30**

No. 10-A-774B3. With tile, as above described, and No. 2 grate outfit, which consists of Chicago Mounted Buckeye coal and wood grate, including summer front.**$19.45**

No. 10-A-774B4. With tile, as above described, and No. 3 mounted gas grate.**$19.55**



Something on the same order as higher priced mantels. Good selected woods, quarter sawed veneered columns, with solid wood carved ornaments.

PLAIN OAK—GLOSS FINISH

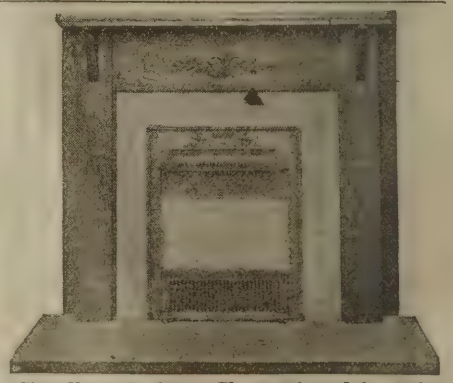
Height, 6 feet 5 inches.
Widths, 4 feet 6 inches to 5 feet.
Tile opening, 36x36 inches.
Projection, 3 inches.
Plain mirror, 14x24 inches.
Veneered columns, 2½-inch diameter.

No. 10-A-7601. Mantel, with woodwork and mirror only.....**$9.80**

No. 10-A-7602. With best quality enameled tile for the hearth and facing, and No. 1 grate outfit, which consists of combination grate.....**$19.15**

No. 10-A-7603. With tile, as above described, and No. 2 grate outfit, which consists of Chicago Mounted Buckeye coal and wood grate, including summer front.**$25.20**

No. 10-A-7604. With tile, as above described, and No. 3 mounted gas grate.**$25.30**



Excellent design. Cheapest and best for many purposes. Will last a long time and will answer the purpose for a combination mantel and shelf. Just the thing for small cottages and low priced houses.

PLAIN OAK—GLOSS FINISH

Height, 3 feet 9 inches.
Widths, 54 inches to 5 feet.
Tile opening, 36x36 inches.
Projection, 2½ inches.

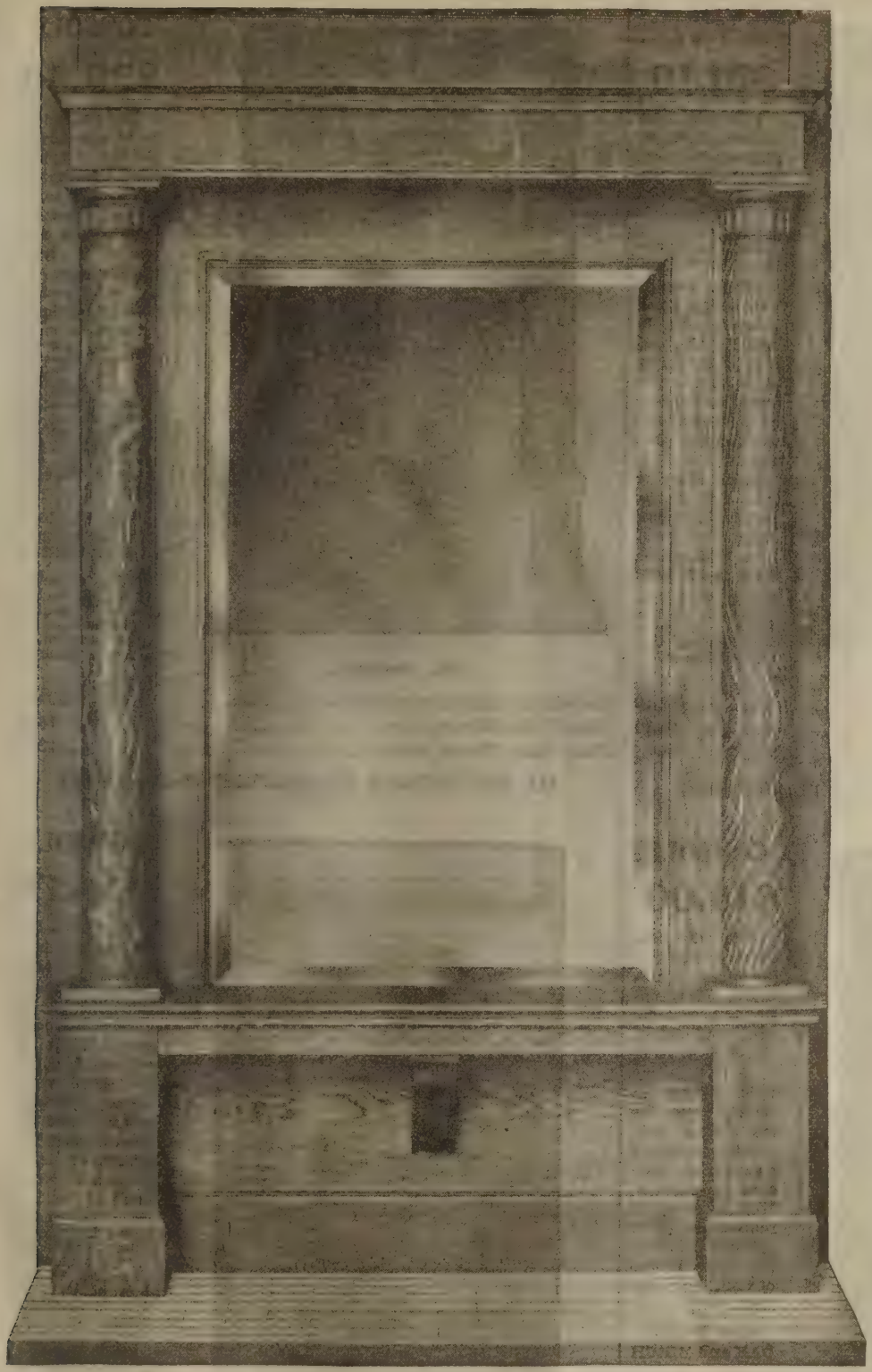
No. 10-A-00B1. Base, with woodwork only **$2.50**

No. 10-A-00B2. With best quality enameled tile for the hearth and facing, and No. 1 grate outfit, which consists of combination grate.....**$11.85**

No. 10-A-00B3. With tile, as above described, and No. 2 grate outfit, which consists of Chicago Mounted Buckeye coal and wood grate, including summer front.**$17.90**

No. 10-A-00B4. With tile, as above described, and No. 3 mounted gas grate.**$18.00**

All the above mantels furnished only with Grate Outfits, shown on page 52.



No. 10-A-6401.

Stock Woods: **OAK AND BIRCH**

Height, 94 inches. Width, 60 inches. Mirror Opening, 34x54 inches.
Veneered columns, 5 inches.

Beveled Mirror, extra $13.00.
Plain Plate Mirror, extra $11.25.

All Best RUBBED and Polished Piano Finish.

Consoles

We are showing a line of up-to-date, well-manufactured, well-finished and well-designed consoles at prices that are from 25% to 50% lower than they have been sold at heretofore

$22.00
...Buys...
this Beautiful Console.

but does not include the mirror. Plain or bevel plate mirror costs extra, depending upon which is selected. See price and measurements below.

There is positively no ornament inside a house that adds more to the beauty, general appearance and refinement than a console, and no modern, up-to-date house is considered complete without one. We show here an especially appropriate design that will match up with almost any kind of interior style of trim and at the same time, has a style of its own that will compare favorably with the best on the market.

The same great care is used in the manufacture of our Consoles as in the manufacture of our Mantels. Where Quarter Sawed Oak is shown, the entire piece is solid quarter sawed, except the columns, which of necessity must be veneered. In case where Birch consoles are desired in Mahogany finish, the veneering on the columns and brackets is of solid mahogany, cut from the latest and most improved process of veneer cutting and positively guaranteed to be first class in every respect.

The mirror we furnish is the very best French plate.

We ship our consoles carefully packed and crated, and guarantee safe delivery. If there should be any breakage, all that is necessary is to have a note of same made on the freight bill and we will immediately replace without any extra cost to customer.

No. 10-A-9331.

CONSOLE.

$31.10

This price does not include mirror. Plain or bevel plate mirror extra. See prices and sizes below.

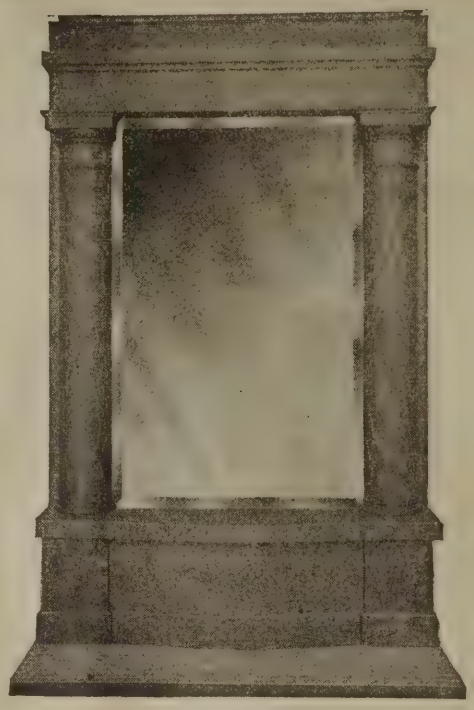
Here is something that is of exceedingly handsome design. Combination Console and Bookcase, strictly mission style, quarter sawed hand polished piano finish. Art leaded glass doors.
Nothing cheap or gaudy—simple, artistic, handsome design.

Stock Woods—
OAK and BIRCH

Height, 87 inches. Width, 60 inches. Mirror Opening, 30x50 inches. Column 12 inches.

Console, not including mirror	$31.10
Bevel Plate Mirror, extra	10.30
Plain Plate Mirror, extra	8.75

ALL BEST RUBBED AND POLISHED PIANO FINISH.



No. 10-A-6341.

CONSOLE.

$29.35

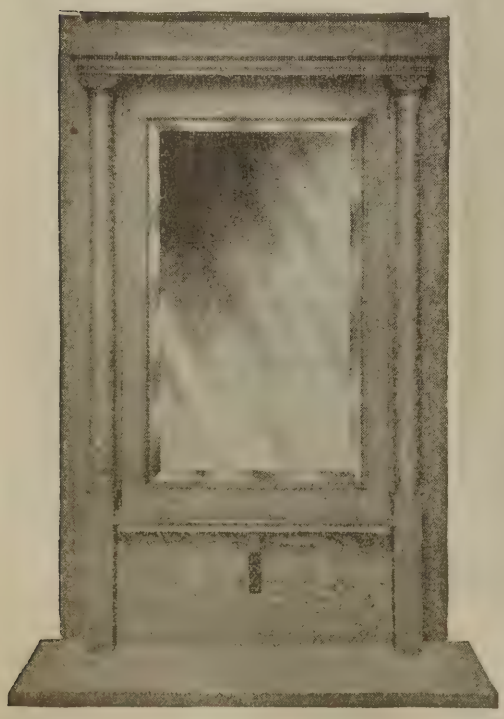
This price does not include mirror, plain or bevel plate extra. See prices below. This handsome, massive, solid-looking console is of exceptionally good design, solid quarter sawed throughout, except columns. This has swell shelf and front below shelf, giving an unusually artistic appearance that cannot be had in other designs. It will match up with finish in first-class shape

Stock Woods—
QUARTERED OAK and BIRCH

Height, 96 inches. Width, 60 inches. Mirror Opening, 40x60 inches. Pilasters half round, 9 in. diameter.

Console, not including mirror	$29.35
Bevel Plate Mirror, extra	16.80
Plain Plate Mirror, extra	12.15

ALL BEST RUBBED AND POLISHED PIANO FINISH



No. 10-A-6441.

CONSOLE.

$15.00

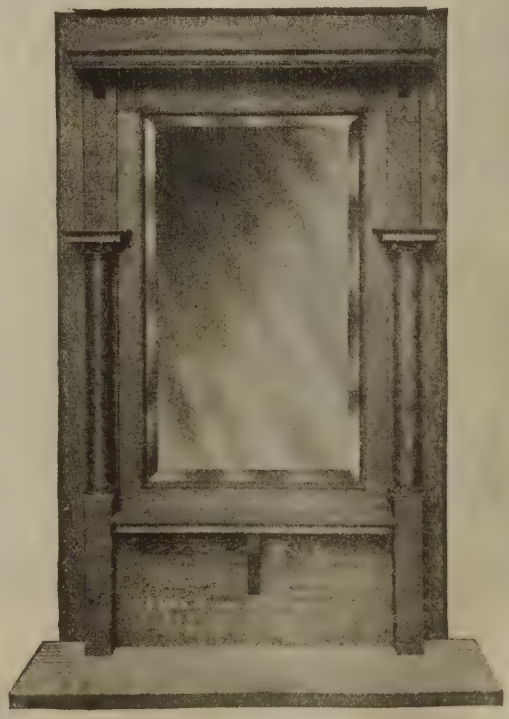
This price does not include mirror. See prices and sizes below. This console is a neat design, well-proportioned, solid wood, except columns which are quarter sawed. Carvings are hand solid wood carvings, no composition material on same. Well finished, all rubbed and piano polished and a decidedly good piece of work for the price.

Stock Woods—
OAK and BIRCH

Height, 87 Inches. Width, 54 Inches. Mirror Opening, 30x50 Inches. Veneered Columns, 3½ Inches.

Console, not including mirror	$15.00
Bevel Plate Mirror, extra	10.30
Plain Plate Mirror, extra	8.75

ALE BEST RUBBED AND POLISHED PIANO FINISH



No. 10-A-6451.

CONSOLE.

$15.79

This price does not include mirror. See sizes and prices below. A design something like the cut shown opposite except that the columns do not extend the full length being shortened about a third and have a shelf cap, which is ornamental and useful, made of solid select wood, quarter sawed veneered columns, solid carving, no composition and, what is best of all, the price is absolutely right.

Stock Woods—
OAK and BIRCH

Height, 87 Inches. Width, 54 Inches. Mirror Opening, 30x50 Inches. Veneered Columns, 3½ Inches.

Console, not including mirror	$15.79
Bevel Plate Mirror, extra	10.30
Plain Plate Mirror, extra	8.75

ALL BEST RUBBED AND POLISHED PIANO FINISH

HOUSES AND BARNS

Plans, Specifications and Material Lists Free

Architects Usual Price $50.00 to $100.00

READ THIS WONDERFUL OFFER

We make a specialty of furnishing material for practically complete house and barn designs. On the following pages we give you a few sample pages taken from our FREE Plan Book. This book contains nearly 100 pages, and if you are thinking of building a home or barn, by all means do not fail to send for a free copy of this valuable book. Our proposition is so clearly outlined in same that you cannot misunderstand it, and to any one intending to build, a careful reading of our Plan Book will be of invaluable benefit.

Ordering material for practically complete house or barn plans by mail is a simple matter through our system. You can do it right in your own home. You can get plans, specifications and material list containing full information on practically everything going into the construction of the building in one-tenth the time it would require if you had to go out and get all the information yourself in a round-about manner. Our facilities for furnishing material are practically unlimited. Think of being able to get all the material for a house or barn through one firm, one source and covered by our ironclad guarantee, and know that everything has been worked out to a nicety as regards the material in general, both as to design, style and quality, at the same time taking into consideration that all should harmonize.

BUILDING MADE EASY.

To those who have built in the past it certainly must be plain what a wonderful convenience it is to be able to get all the material not only through one source, but at a great saving in price, as compared against the necessity of purchasing same piece-meal from the many different sources that are necessary in the usual method of building operations.

Our plan book has been prepared with the aim in view to produce designs to meet the requirements of all conditions and localities, and to approach near enough to individual tastes so that any changes suggested by individual preference may be made in any of these without destroying their destinctive features. We have cut away from all old and wasteful methods and ideas of design and building construction, and present many entirely new features in our designs not usually attempted in houses of moderate cost, and not included in many of the higher priced houses. All this is explained fully in our book and any one reasonably familiar with building construction with our plans, specifications and material list in hand can readily understand them.

The prices mentioned are approximate prices, F.O.B. cars Chicago, and are given to enable customers to select a design within their means. These prices may vary slightly either way, depending upon market conditions, and upon application we shall be pleased to name any intending purchaser our price delivered FREE OF ALL FREIGHT CHARGES F.O.B. CARS HIS HOME STATION, prompt, safe and sound delivery of every item guaranteed.

BARNS.

Our barn plans are worked out with the same care both as regards practical construction, economy of cost and ease of construction, all of which is more fully described in our book.

Our prices on barns as on houses are subject to market changes and are given as a guidance to prospective purchasers and may vary either way. Prices quoted are F.O.B. cars Chicago, and do not include the interior stable arrangement unless so specifically stated.

OUR PLAN BOOK IS FREE.

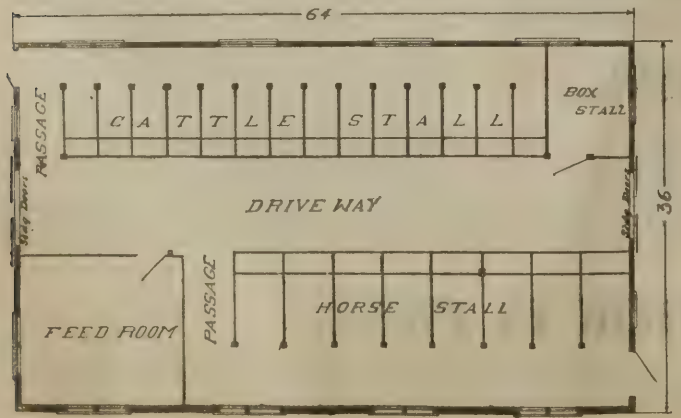
Do not fail to send for it today. It will give you full and complete information regarding our Free Blue Print Plan, our Specification and Material List Offer. It contains full and complete information, and if you are interested at all you must send for it at once.

"MAJESTIC" BARN DESIGN

PRICES QUOTED ARE ONLY APPROXIMATE AND SUBJECT TO MARKET CHANGES. DELIVERED PRICES QUOTED ON APPLICATION.

OUR Majestic Barn Design, which was placed upon the market some months ago, is the most modern, up-to-date that has ever been designed. It is of the Joist Frame construction. That is, it is made up of built-up timbers. There is no heavy timber in the entire structure. The advantages of this method of construction are universally recognized for strength, rigidity, economy (both in cost of material and labor) and has the old style timber construction "beaten to a frazzle." The roof is of the self-supporting pattern, each rafter forming a truss, and doing away with all the perloins and posts in the hay mow, which always interferes with the operations of the hay carrier. The special advantages of this construction is the fact that timbers may be built-up of any length without weakening them at any point by reason of joints or splices. The braces, girders, etc., are so placed that the strain is distributed equally at all points and a perfect rigidity of the frame is insured that cannot possibly be equaled by the old style timber construction. In addition, this style of construction gives the largest room for the size that it is possible to obtain, there being no wast space anywhere. It is by all odds the most economical, cheapest and for general purposes, the best barn that a farmer can possibly put up.

We offer this Majestic design in various sizes of the uniform width of 36 feet. The stable ceiling is intended to be 8 feet in the clear with doors at each end and a driveway through the center of the entire length of the building, with the cattle and horse stalls arranged on either side.



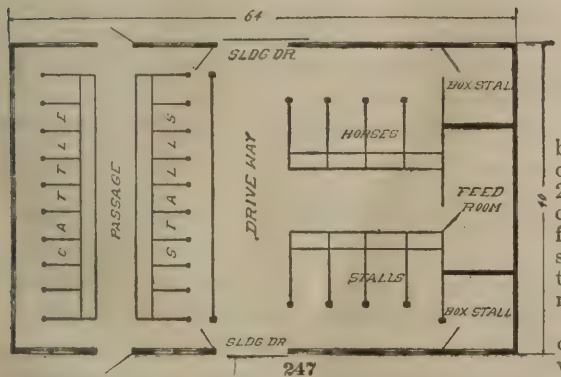
SUGGESTION FOR FLOOR PLAN FOR MAJESTIC BARN, NO 222.

The entire upper floor of this barn is devoted to the storage of hay and other fodder and large doors are placed in one gable for the operations of the hay carrier. The barn is exceedingly well lighted and perfectly ventilated, which is one of the most essential features of the modern barn. To insure further sanitary conditions, this barn should be placed on a concrete foundation about a foot above the stable floor, which should also be made of cement. Prices do not include material for stable partitions. We furnish this design in the following sizes:

SIZES AND PRICES

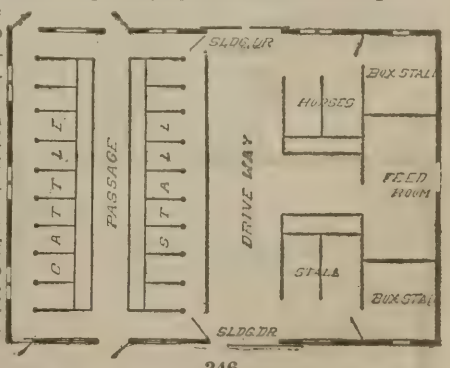
Name.	No.	Size.	Height to Plate.	Height to Top of Roof.	Price.
Majestic	220	36x 32	18 feet	38 ft. 6 in.	$395.00
"	221	36x 48	18 "	38 " 6 "	498.00
"	222	36x 64	18 "	38 " 6 "	620.00
"	223	36x 80	18 "	38 " 6 "	740.00
"	224	36x 96	18 "	38 " 6 "	858.00
"	225	36x112	18 "	38 " 6 "	975.00

OUR "PREMIER" BARN DESIGN

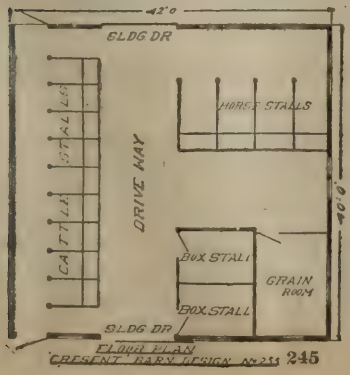


THE general construction of this design is similar to our "Majestic" barn design. It is of the joist frame or built-up timber style of construction and is in many respects the same as our Majestic design except that it is only 12 feet high. In this design the driveway is across the barn instead of lengthwise, there being a pair of doors at each side of barn to permit driving through with fodder for feeding purposes. The smallest of these designs will accommodate nine head of cattle and four horses besides having 2 box stalls and large feed room. While the photograph shows but one pair of doors on each side of the barn, we furnish sufficient material for two smaller doors in the rear of the cattle stalls wherever our floor arrangements are followed.

The interior arrangements shown on the stable floor may be altered when individual needs require, but we believe this arrangement will suit the majority of our customers owing to the economy in feeding the stock which this arrangement makes possible.



The stable ceiling proper is 8 ft. high in the clear with girders supporting the hay loft which extends the entire length of the barn. The roof is of the Gambrel, or self-supporting style, there being no posts or perloins in the center to obstruct the hay-carrying apparatus. This barn has a hay capacity of 1¼ tons for every foot of its length and will hold all the hay necessary for the stock which it accommodates.



The barn is well lighted and ventilated, and if placed on a concrete foundation will have all the sanitary conditions of the most modern, up-to-date barn.

The material we supply for this as for all other designs is strictly **BRAND NEW** stock as outlined in our **Material Specifications** on a former page to which we invite your attention. We also want to repeat that we furnish free plans, specifications and a complete list of material with each of these designs in accordance with our **FREE PLAN** offer already explained.

We furnish this design in the following sizes and shall be pleased to answer any inquiries regarding same. Prices do not include material for Stable partitions.

Name.	Number.	Size.	Height to Eaves.	Height to Top of Roof.	Price.
Premium	245	40x42	12 feet	32 feet	$480.00
Premium	246	40x56	12 feet	32 feet	$590.00
Premium	247	40x66	12 feet	32 feet	$700.00

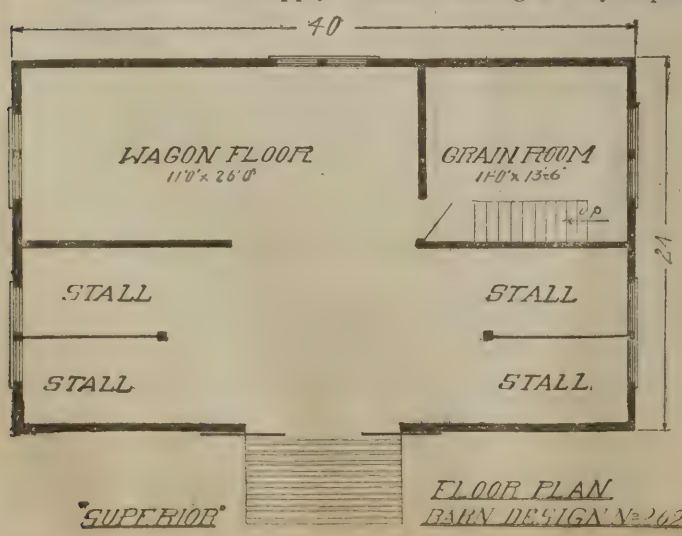
OUR "SUPERIOR" BARN No. 262

IN this design we show a moderate size barn for city or suburban use where a few horses and one or two cows are kept. The appearance of the barn is everything that can be demanded in a barn of this class. The construction is substantial and cheap, yet not cheap enough to detract from its general appearance or usefulness. It is of the balloon type of construction with 2 x 6 for studding and drop siding for the exterior.

The floor is of cement as well as driveway leading to it, and the barn should be placed upon a concrete foundation as shown in our Blue Print Plans.

The size of this barn is 23 ft. 6 in. wide by 40 ft. in length and 12 ft. 6 in. to the top of the plate. Stable is 9 ft. in height with a hay mow above. The capacity of the hay mow is ample for a barn of this size; altogether we believe it meets the requirements of the class for which it is intended.

The material we supply for this building is fully explained on another page, as is also our **Free Plan Proposition** which is applicable to this design as well as to all others.



The price we are asking for the material makes it a big bargain proposition which those who contemplate building should take advantage of without delay.

Size 23′ 6″ x 40′ 0″. Price $245.00 including all necessary material for Stable partitions.

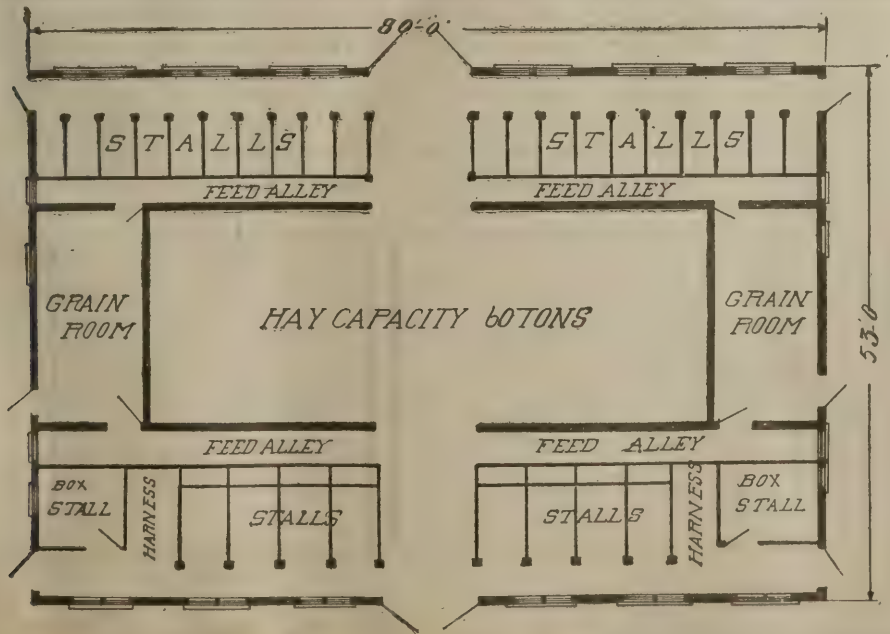
We can furnish our Premier guaranteed barn paint for any of these designs.

We know that, considering price and quality, Premier is the best barn paint on the market for this purpose.

We have the amount required for two-coat work on all of our designs and promptly upon applications will be pleased to name you a price. Also, bear in mind we can furnish Hay Carrier apparatus for any of these barns. Prices quoted in our general catalog.

"STAR" CATTLE AND HORSE BARN

IN our Star Design we show a modern cattle and horse barn which we believe will meet the requirements of many farmers who make a business of raising stock on a moderate scale. This building is of the balloon type of construction as shown more fully by our Blue Print Plans. The hay-mow extends to the ground floor and also above the grain rooms on each end of the barn. Cattle stalls are arranged on one side of the hay-mow, while the horse stalls are arranged on the other side. The feed alleys between the hay-mow and stalls makes feeding economical and easy. These feed alleys communicate not only with the hay-mow but also with the grain rooms at each end. A driveway is provided through the center of the barn, and if desired it may be carried through the hay-mow as well, which feature would, however, reduce the capacity of the latter considerably.



FLOOR PLAN STAR BARN DESIGN No. 270

We particularly call your attention to the numerous windows shown in the ground floor plans. There is no part of this structure that is not amply lighted, and the windows together with the ventilation in the roof furnish an ample supply of fresh air to every part of the building.

We list this barn in one size only, 53 feet wide by 80 feet in length, but if this size does not give sufficient stable capacity for cattle, a lean-to can be built at one end which will furnish sufficient room for fifteen additional head. In this case, the grain room at one end could be consolidated with the grain room at the other to provide for easy access to the stock at that end. In this way, a 12-foot addition at one end would furnish room for 35 head of cattle without interfering with the horse stalls as shown in the plans.

This barn should be placed upon a concrete foundation and the cement floor should be sloped towards each side so that the space devoted to the storage of hay could be kept dry and the stables kept properly drained.

The size of this barn as stated is 53 feet wide by 80 feet long, 8 feet to the eaves and 24 feet to the comb. Price, without stable material.....**$550.00**

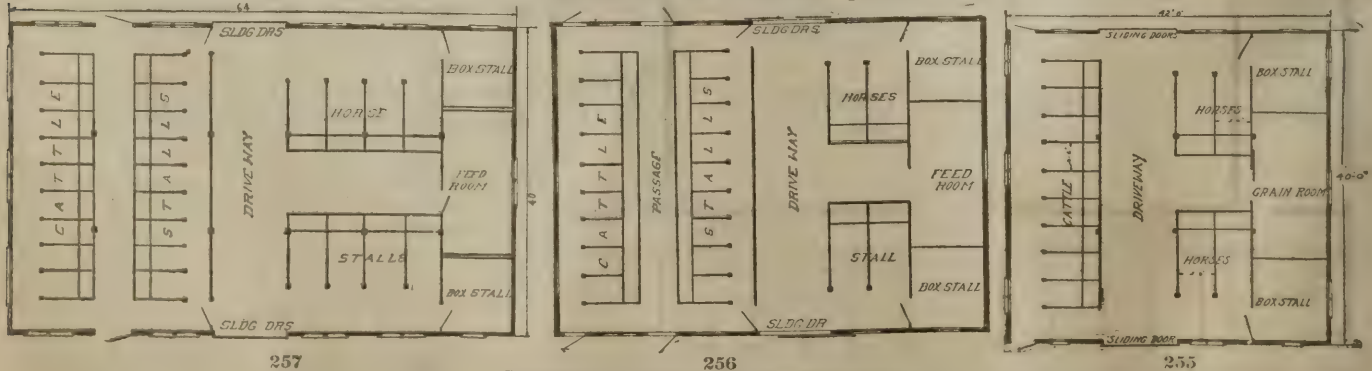
"CRESCENT" BARN DESIGN

IN our "Crescent" Design, we show a barn with a balloon frame. The foundation is supposed to be of concrete as well as driveway leading to the barn floor. In the balloon frame we do away with built-up timbers and use instead 2x6 studding for outside. The upper floors are supported by two rows of posts through the center upon which are placed girders of the proper size to hold the upper joints and the roof is likewise supported by perloins running the length of the barn.

In this construction instead of placing the boards vertical we use our regular novelty or drop siding for the outside which makes a very fine appearance besides being considerably warmer. The driveway in this barn runs across the building with the cattle and horse stalls arranged on either side of the driveway. This driveway may be used for feeding purposes by arranging the mangers for stock parallel with it, thus economizing labor in the care of stock.

We are showing this design in three different sizes of uniform width of 40 feet. The entire upper floor is devoted to the storage of hay and other feed and a large door is provided at one end of the barn for the use of hay carrier. In addition to this door, there is another door on the side directly over the driveway which may be utilized where the large door is not wanted, or a window may be placed in the dormer where this door is placed for additional ventilation. This barn will hold a large amount of hay and is in many respects just such a barn as a small farmer will need. The stable floor is well lighted and ventilated and the sanitary requirements have been well taken care of.

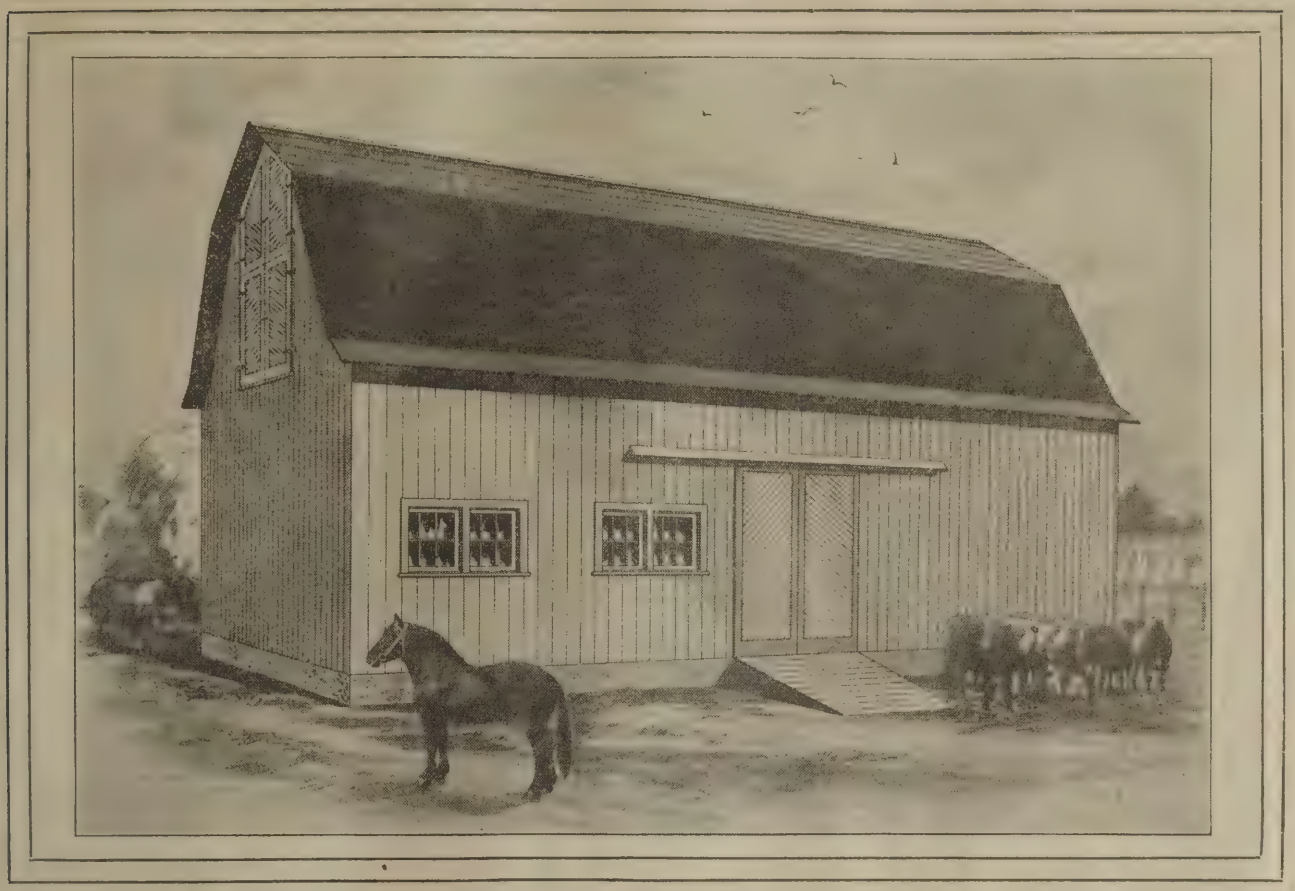
Prices do not include material for stable partitions.

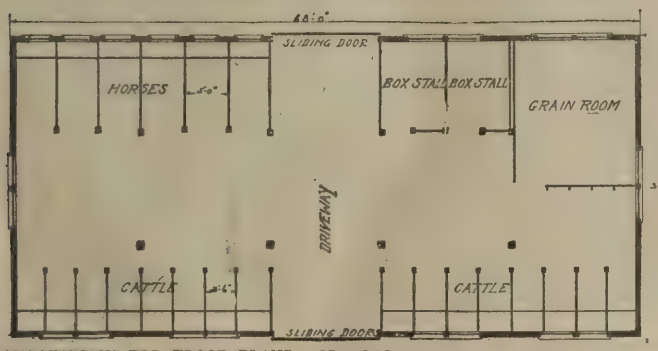


Suggestions for floor plan arrangements

NAME.	No.	SIZE.	HEIGHT TO EAVES.	HEIGHT TO TOP OF ROOF	PRICE.
Crescent	255	40x42	12 feet	30 feet	$412.00
Crescent	256	40x56	12 feet	30 feet	515.00
Crescent	257	40x68	12 feet	30 feet	620.00

OUR "SUPREME" BARN DESIGN





SUGGESTIONS FOR FLOOR PLANS. **No. 212**

THIS design follows the general construction of our "Majestic" design; is of the Joist Frame or built-up construction. This method of construction is now generally recognized by nearly all the Agricultural Departments of the various states, as it is not only much cheaper than the old-style timber construction but much stronger as well. In our Supreme design, we show a barn 32 feet wide, 16 feet high to the top of the plate, and of the various lengths shown at the end of this description. The stable is intended to be 8 feet high in the clear and the hay-loft extends the entire length of the building, giving a large hay capacity.

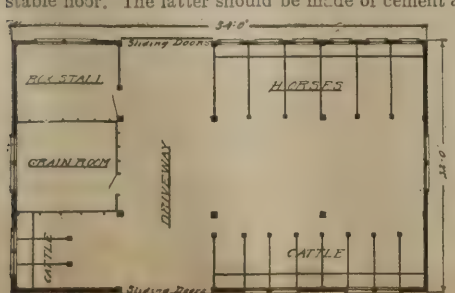
The driveway through the center of the barn, with the doors at each side of the building, makes it easy to bring fodder for the stock. These doors may be changed to the end of the barn and the driveway may be lengthwise through the structure, if preferred.

Inasmuch as this barn is only 32 feet wide, it will be more convenient to make the stock head towards the outside, as that will require less space than if they are placed with the heads towards the center, and our floor plans have been arranged with this end in view. This particular design is especially adapted to the small farmer where a large barn is not required, and we believe will answer every requirement of the modern up-to-date barn.

The building should be placed upon a concrete foundation extending about one foot above the stable floor. The latter should be made of cement and properly sloped to permit of easy drainage.

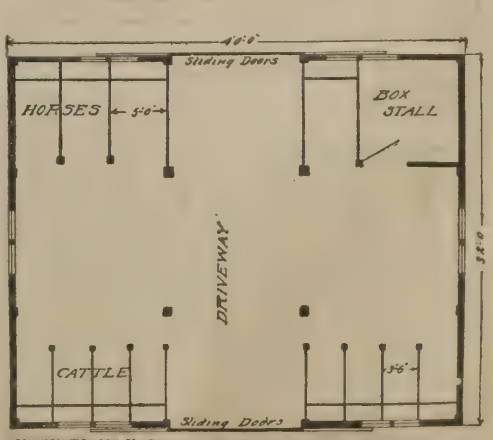
The material used in the construction of this barn is fully described in our Material Specifications on a preceding page, and, if interested, we shall be pleased to supply you with Blue Prints, Specifications, together with a full list of material in accordance with our **Free-Plan Proposition** as already outlined.

The various sizes and prices of this barn are as follows: Material for stable partitions not included.



SUGGESTIONS FOR FLOOR PLANS, **No. 210**

Name	No.	Size	Height to Eaves	Height to Top of Roof	Price
"Supreme"	210	32x40	16 ft.	35 ft.	$410.00
"	211	32x54	16 "	35 "	$520.00
"	212	32x68	16 "	35 "	$630.00



SUGGESTIONS FOR FLOOR PLANS. "SUPREME" BARN DESIGN No. 210

No. 211

HOUSE DESIGN No. 6

SIZE, 23'6" x 33' 0"
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $650.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

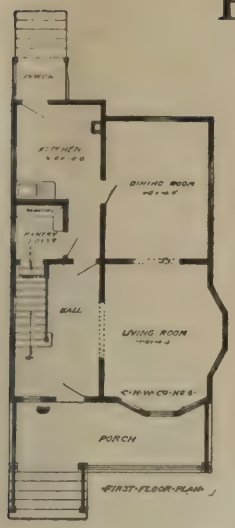
7 ROOMS AND BATH

HOUSE Design No. 6 is known practically from one end of the United States to the other although it has not been on the market for more than six or eight months. It is positively the most popular design ever placed on the market. The extreme low price of $650.00 at which we originally offered it to the public was made when material, both as regards lumber and mill work, was considerably lower than at the present time and we have since added quite a few improvements that would ordinarily increase the price of this house considerably, but on account of the large amount of advertising the design has been given, the large number of orders received for it, we are still furnishing the material for it at the same low price.

No. 6 has been purchased by customers from all sections of the U. S. to which it can be shipped profitably and has given universal satisfaction. On the opposite page we give you a general description and also the necessary floor plans.

We can also furnish this design, which is our No. 16, in a larger size, being 2 ft. longer, 2 ft. wider and 1½ ft. higher for $98.50 additional to the above price.

HOUSE DESIGN No. 6—Cont'd



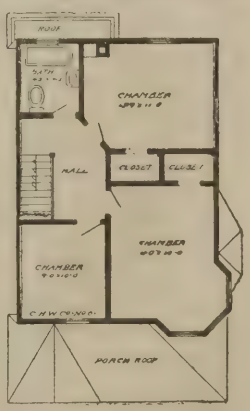
HOUSE Design No. 6 is an ideal house for a corner lot but with its excellent lay-out it is equally desirable regardless whether it is placed on a corner or not. The plan in general is laid out with a view to beauty, economy and utility.

You enter the reception hall which is well lighted and embellished with a handsome stairway to the second floor. A large cased opening to this room from the parlor is another beautiful feature and entering the parlor we have two bay windows, not generally obtained without considerable expense. From the parlor we pass through another cased opening into the dining room. This is the most attractive room, the wall space being unbroken and lighted by a double window which gives ample light. In addition, we have placed a handsome casement sash in the rear wall, glazed with leaded crystal sheet glass, which adds much to the general beauty of the interior. The dining room is connected conveniently with the kitchen and pantry. From the pantry we have a stairway to the basement and from the kitchen an exit to the rear porch. This entire lower floor is laid out to save the house-keeper many useless steps, which are generally necessary in homes built on poorly worked out plans.

From the main stairway in the reception hall, we get up-stairs landing in a hallway from which direct access can be had to the three bed rooms and small room at the rear which may be arranged for either bed room or bath room. The entire house is exceptionally well lighted and ventilated. The two main bed rooms have large closets and if additional closet space is needed it is an easy matter to place one in the bath room and one in the small front chamber.

This design affords an opportunity of heating with either hot water, steam or stove heat in the most economical and convenient manner. The arrangement of rooms and exposure is a matter which should be carefully considered. House No. 6 has been built in the city, suburb and country hundreds of times, being arranged for the various conveniences at hand at the respective locations.

The exterior of this house presents an exceptionally pleasing and beautiful appearance to the eye. It will decorate any location and fit in with any surrounding. If built in the city, it will be found most agreeable as a city home, and when built in the country, with all the beauty of natural scenery, landscape and plenty of ground space, one can easily appreciate its beautiful appearance. Our plans for this house, like all our other houses, are very complete and with the aid of our material list, which shows what we propose to furnish for every item going into its construction, giving our catalog number and detail, anyone can see at a glance the excellent quality of material we furnish and when our plans are used, together with our specifications and material list, an ordinary carpenter will understand them perfectly and will be able to pursue the construction of this house to completion in a most satisfactory manner.



Read carefully our Free Plan offer, also our Material Specifications as outlined on the preceding pages of this book.

Don't forget that this house can be equipped most economically with either hot air, hot water or steam heating plants and also bathroom outfit. We are pleased to quote the following special low prices on the material necessary to install Bath Room Outfit No. 3½, complete as listed and described in our catalog together with one No. 5 A 625 cast iron white porcelain enamel kitchen sink, one 30-gallon iron range boiler complete with stand tube and couplings for iron pipe and also including all the necessary roughing-in material to install these fixtures in a first-class workmanlike manner above the ground line with full instructions and blue prints showing the installation of same, for the very low price of..... **$92.50**

This is for strictly "A" grade material:

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint but no other floor or roof paint..... **$26.54**

Hot Air Furnace..... **$99.36**

Steam Heating Plant..... **$180.84**

Hot Water Heating Plant..... **$216.56**

The above prices include everything as per our detail specifications, which we will gladly furnish on application.

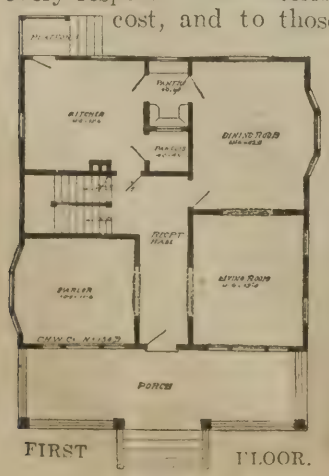
HOUSE DESIGN No. 154B

SIZE, 33′ x 33′
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $987.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

9 ROOMS AND BATH

IN the above we show a design that is 33 ft. wide by 33 ft. deep, and it is especially designed to meet the requirements of that class of people who do not wish to be crowded for room in their homes. The massive porch on the front and the wide projecting eaves as well as the handsome dormer in the roof give the external appearance a certain attractiveness that is not always possible to obtain in houses of this size. Front door opens directly into the center hall which communicates by cased openings with rooms on either side. These cased openings may be enlarged to suit individual tastes so that the entire front of the house may be thrown into one large room. This arrangement is in great demand at the present time and offers greater advantages for domestic enjoyment than any number of smaller rooms. The wide stairway leading to the second floor lands in the hall which is lighted by a window on the stair landing. There are five good sized bedrooms and bath room on the second floor with plenty of closet space. Altogether, this house is not only roomy and comfortable but modern in every respect. The interior arrangement may be altered to meet individual requirements without increasing its cost, and to those who like comfortable dimensions and modern conveniences, this design offers many advantages.



FIRST FLOOR.

The material we furnish for the construction of this house is strictly **Brand New** stock and of exceptionally good quality. We invite your attention to the detailed explanation in the preceding pages of this book for further information along these lines. We furnish **Free Plans,** specifications and list of material with each of our designs.

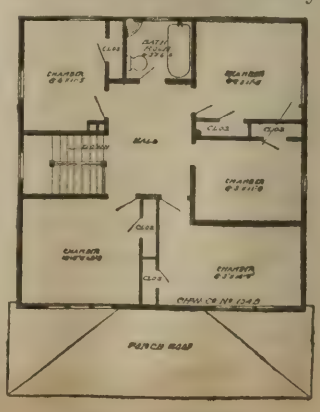
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....$98.00

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....$29.05

Hot Air Furnace.....$138.55

Steam Heating Plant.....$233.34

Hot Water Heating Plant.....$290.64



SECOND FLOOR.

HOUSE DESIGN No. 115

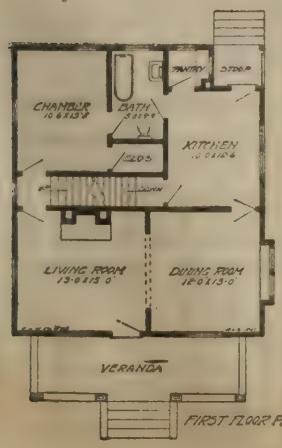
SIZE, 28′ x 31′ 6″
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $760.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

7 ROOMS AND BATH

IN presenting House Design No. 115, we are showing one of the very best and most practical semi-bungalow type designs, the result of careful study and work-out. It is a house that meets the requirements of those wishing to take advantage of all possible space as well as arrangement of conveniences. There is a growing demand for houses of this class for the reason that they offer the maximum of convenience at a minimum of expense. Here we have a complete house on one floor—dining room, living room, bath room, pantry and spacious closets all on the first floor. The dining room and living room can be thrown together and will make a combined room of 13x27. The chamber, with the bath room immediately adjoining, is a great convenience, which is readily appreciated. The kitchen is thoroughly modern, has a good-sized pantry, as well as an opening on the porch for receiving ice without the necessity of carrying same through the kitchen—which usually means that you have to stay at home and wait for the ice-man, and, when he gets through, wash up the floor. There is also a convenient entrance to cellar direct from the kitchen, enabling one to get to this part of the house regardless of weather conditions.

In this design, we have eliminated the reception hall and fancy stairway, following more closely European lines laid out along strictly common sense, sanitary and labor-saving ideas, but at the same time utilizing every inch of space. Through the living room we have direct entrance to stairway, also passage to chamber. The stairway leads up to second floor without a turn, giving entrance to the three rooms within easy reach of the landing. All rooms are well ventilated, have spacious closets set aside for each chamber with a window in each closet. The closets are exceptionally large, being about 7x5 each. The sewing room can be arranged as a child's room or as an additional bath room, being 7x11 in size.



FIRST FLOOR PLAN.

The general construction is modern, up-to-date and solid in every respect. Siding is used below the belt course as shown in the photograph, shingles above. A very artistic effect is gained by brackets supporting the overhang of the roof, with exposed rafters for the entire design. The outside wall is run down to within five inches of the ground, carrying out the general effect of the bungalow style and doing away with the necessity of expensive foundation. This design can be depended upon to be serviceable in every respect. It is easily and cheaply constructed and housekeeping within it should be a delight.

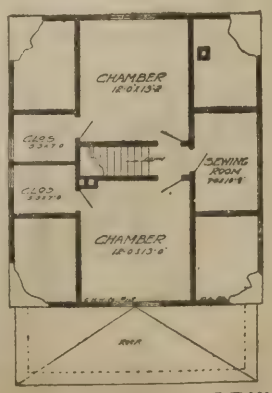
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work, so as to complete the entire job to the ground line—all material "A" grade and guaranteed for $92.50

Paint for entire job, including hard oil finish for interior or two-coat work (including porch floor paint, but no other floor or roof paint) $18.46

Hot Air Furnace $89.80

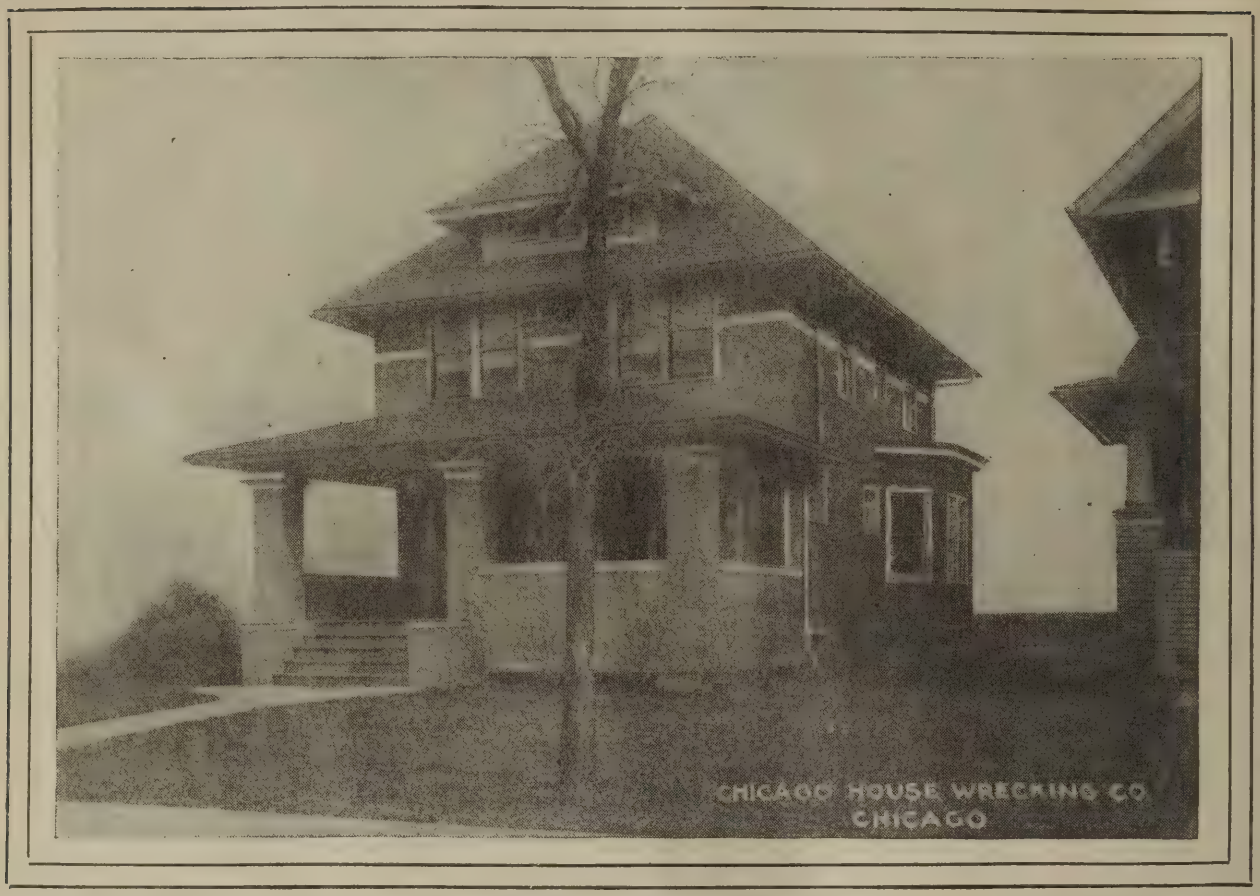
Steam Heating Plant $171.68

Hot Water Heating Plant $204.42



SECOND FLOOR PLAN.

HOUSE DESIGN No. 156



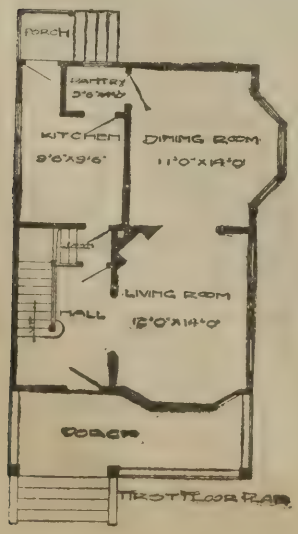
SIZE, 24′ 6″ x 30′ 6″ EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $685.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

8 ROOMS AND BATH

THIS design shows a further development of the two story bungalow pattern with veneer cement on the outside; a method of construction very popular. The size of this house is 24′ 6″ wide by 30′ 6″ deep, and with its massive porch across the front and heavy dormer in the roof, has a very substantial and lasting appearance.

The interior of this house may be developed into many changes and artistic arrangements. The extreme simplicity is one of the crowning features of this design and makes it so desirable to many people. The interior arrangement is very much like some of our other houses but still has individuality enough to give it distinction. The house has seven rooms, hall, pantry, bath room and four closets. It is extremely well lighted and ventilated and possesses every convenience. Communication between rooms is facilitated by large case openings. The stairway is modern in design and construction and easy of ascent. The closets are properly and conveniently placed and everything has been arranged to meet the requirements of a modern home.



In the selection of materials for the construction of this design, we have been governed by the general character of the house. Everything we supply is strictly **brand new** stock, the quality being in keeping with the general design.

We refer you for a more detailed explanation of the material we furnish to our **"Material and Specification"** section and also ask you to carefully read our **Free Plan Proposition** as outlined on preceding pages.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....$92 50

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint)...$14.94

Hot Air Furnace.....$107.10

Steam Heating Plant.....$179.01

Hot Water Heating Plant.....$212.52

HOUSE DESIGN No. 126

SIZE, 22′ x 30′ 6″
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $645.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

7 ROOMS AND BATH

WE have here a design of house on the bungalow type, having reception hall, living room, dining room, kitchen and pantry on the first floor, with three ample sized chambers and alcove chamber as well as bath and spacious closet on the second floor.

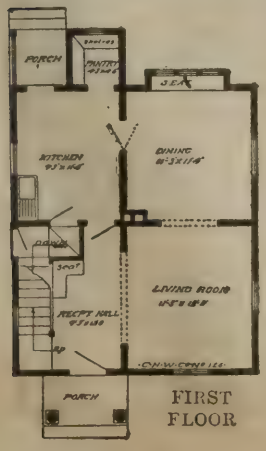
Front entrance is made directly into the reception hall, having direct passage through the house to kitchen. Immediately adjoining the reception hall, we have the living room, separated only by a cased opening; thus the two compartments are practically both thrown into one large living room.

The stairway is an open stairway to landing, and in this exceptionally neat arrangement, we have designed a seat immediately below the staircase, conforming to the general outline of this design. Dining room is arranged with seat in the bay, having three French leaded glass sash above; also leaded glass window on side so as to give a beautiful interior effect.

The stairs land on the second floor, practically in the center of the house, making access to all rooms and bath convenient and close at hand.

All the material for this unusually neat house is of the best quality and all interior finish and floors clear stock. We can furnish a Colonnade to fit in the cased opening between the hall and living room if desired at a small additional cost.

The design is also well arranged as regards plumbing and heating fixtures, and all in all, we have made a careful study to place this house on the market as something entirely new and out of the ordinary and have it appeal to persons of good taste, who wish to build economically and get the very best possible results.



FIRST FLOOR

The exterior of the design is strictly classic, made to conform to the "Old English" style of architecture in every particular, having shutters for all windows in front and side lights on the door.

Our bill of material will call for shingles for this particular design. However, we can also furnish it with the upper half in shingles and the lower half in siding, or vice versa at the same prices.

Do not forget to read our **Free Plan** offer as outlined, and our **Material Specification** section which will give you full information relative to the excellent quality of all the material we furnish for this house.

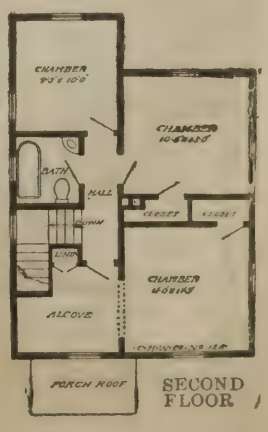
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....$110.00

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....$ 23.08

Hot Air Furnace.....$100.20

Steam Heating Plant.....$173.51

Hot Water Heating Plant.....$194.40



SECOND FLOOR

HOUSE DESIGN No. 130

SIZE 25'10" x 29'6"
EXCLUSIVE OF PORCHES

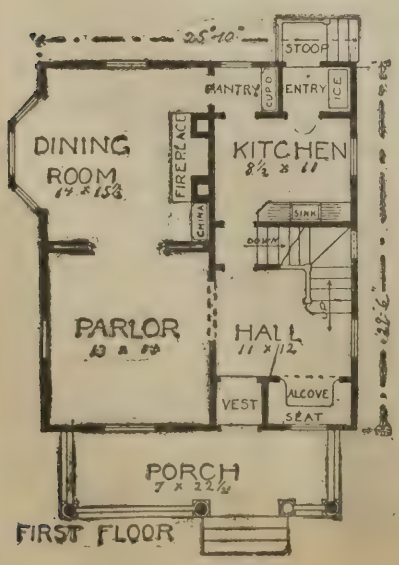
APPROXIMATE PRICE, $715.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

8 ROOMS AND BATH

THIS house is one of the most popular designs ever built. It pleases a large number of people and is a design that can be most economically constructed. It has eight rooms and bath, with pantry, vestibule entrance and large hall; the hall communicating directly with kitchen, parlor and dining room. Note carefully the four good-sized, well-ventilated bed rooms with bath on the second floor conveniently placed, and the large closets with which all the bedrooms are provided.

It is an ideal house in many respects. Just the thing for a medium-sized family and well suited for country, town or city. This house has been built very often and is extremely popular with the class of people who desire comfort, neatness of design and a generally well laid out house.

This house is susceptible to many changes as regards interior arrangement; frequently with little or no additional cost, and these we will be pleased to figure with customers any time as outlined in our free plan offer.



It is well to remember that the material we furnish for our designs is brand new stock, interior finish is clear, of the best grade. Full information with reference to this is given under the head of **"Material Specifications,"** and anyone who contemplates building this house will do well to take advantage of our **Free Plan** offer as outlined therein, thus getting information of great value.

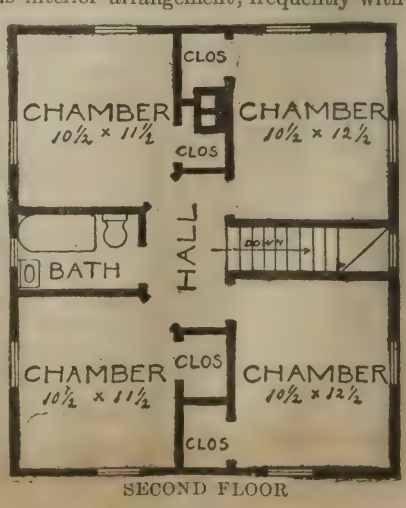
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalogue—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for $97.50

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint.) ..... $ 26.84

Hot Air Furnace $107.10

Steam Heating Plant $196.84

Hot Water Heating Plant $222.63



SECOND FLOOR

HOUSE DESIGN No. 131

SIZE, 28′ x 28′
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $800.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

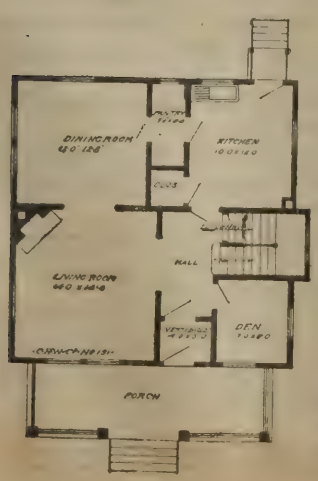
8 ROOMS AND BATH

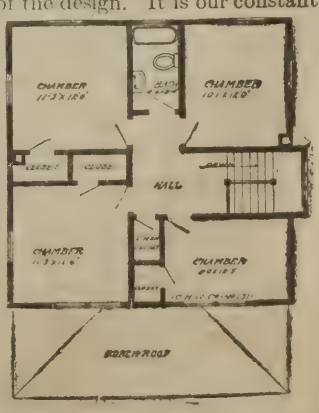
IN the above we illustrate a strictly modern home of moderate size. It is 28 ft. wide x 28 ft. deep with a 7 foot wide porch, extending nearly across the entire front. The large Colonial windows give the house a strikingly distinctive effect often lacking in dwellings of double its cost. The interior has been arranged with a view to comfort and health of its occupants. The windows are many and large, and placed to insure ample light and perfect ventilation. The cellar stairs are directly under the main stairway and within easy access of the kitchen. The pantry communicates directly with both kitchen and dining room; a convenience that will save many steps during the preparation of meals. There is, besides, an extra closet opening from the kitchen that is universally appreciated.

The general comfort and roominess of the house is further enhanced by the large cased opening connecting the dining room, living room and hall. Nor has the artistic been neglected. The triple casement window on the stair landing is glazed with leaded crystal glass and provides not only ample light and ventilation but gives the stairway a pleasing artistic effect, and the leaded glass window in the "den" also adds much to the general attractiveness.

The second floor has four good size bedrooms, bath and four closets. All the rooms are well lighted and ventilated and open directly into the hall, insuring complete privacy to the occupant.

The entire material for this house is of exceptionally good quality and in keeping with the character of the design. It is our constant aim to eliminate waste at every angle, and in drawing the plans and developing the designs we avoid impractical and expensive construction and in making up our bills of material, we utilize standard sizes and grades and so avoid unnecessary expense which always follows impractical and unusual construction. This design, especially, is susceptible to a full development along these lines. As a result we are enabled to offer the material necessary for its construction at a price impossible to others and so make it possible for people in moderate circumstances to secure a beautiful and commodious home at a very low price.





All of the material for these House Designs is strictly **Brand** New stock of standard manufacture and we guarantee the grades specified in our Bill of Material. With the aid of our complete Blue Print plans and Specifications and our itemized List of Material anyone at all familiar with building construction will have no difficulty in constructing this dwelling. We outline on the preceding page of this book our **Free Plan Proposition** which you are earnestly requested to read.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for..... $97.50

Paint for entire job including hard oil finish for the interior for two coat work (including porch floor paint, but no other floor or roof paint..... $26.84

Hot Air Furnace..... $111.00

Steam Heating Plant..... $227.84

Hot Water Heating Plant..... $253.85

TWO FAMILY HOUSE DESIGN No. 140

SIZE, 37′ 6″ x 43′ EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $1190.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

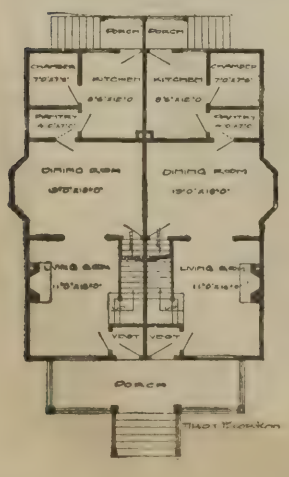
7 ROOMS AND BATH IN EACH APARTMENT

IN the above we show a two family house, size being 37 ft. 6 in. wide by 43 ft. long, exclusive of the porch. Each side has seven rooms, bath and pantry. There is a large front porch that can be divided for each tenant if desired, for the entrance is made through separate vestibules, each connecting directly with the living room.

The house has an attractive open stairway in the living room which is connected with the dining room by a large opening. The dining room and kitchen are nicely arranged with a pantry between, also with another small room in the rear, which can be used for either bath, bedroom or storeroom. On the second floor we have three bedrooms and bath with closets for each.

In designing this house, it has been our aim to avoid as far as possible the appearance of a tenement house which is objected to by many people. In exterior appearance it gives the impression of a private residence and in that respect greatly enhances its renting value.

The low price at which we are selling the material required for the construction of this design makes it possible to build this house at a cost to insure a good dividend on the investment. It is modern in design and conveniently arranged and will make a profitable investment in almost any locality.



The material used in the construction of this design as in all of our houses is of first class stock, strictly in keeping with the general character of the design.

It is our constant aim in drawing our plans and developing them to avoid as far as possible expensive and impracticable construction and so reduce the cost of the building to a minimum by eliminating all waste. The character of the material used in the construction of this as in all other designs is correct and practical and will be found described in the preceding pages of this book, and we refer you to our **Free Plan Proposition** as outlined and solicit your inquiries.

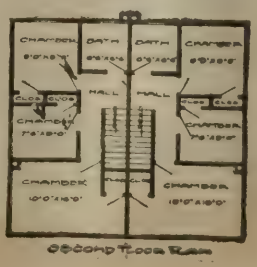
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for..... $165.00

Paint for entire job, including hard oil finish for interior for two coat work, (including porch floor paint, but no other floor or roof paint)..... $36.87

Hot Air Furnace..... $167.90

Steam Heating Plant..... $314.35

Hot Water Heating Plant..... $353.67



TWO FAMILY HOUSE DESIGN No. 141

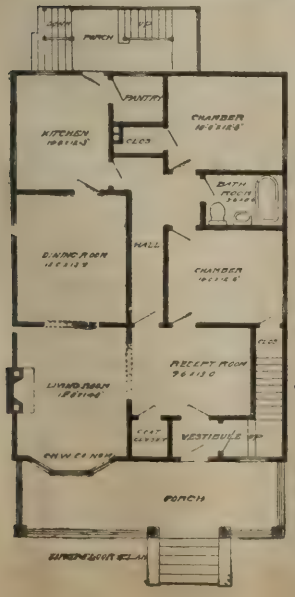
SIZE, 30' x 42'
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $1,250.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

6 ROOMS AND BATH
IN EACH APARTMENT

IN the above design we present a double flat building which has the appearance of a palatial private residence. Size 30 ft. wide by 42 ft. deep. There is absolutely nothing about this design that would stamp it as a flat or tenement house. The large front porch extending across the entire front of the house is roomy and comfortable, yet the single door entering into the house gives no indication that this is used for two family purposes.

The Colonial windows in the front of the house make an imposing and attractive appearance and the pilaster running up to the eaves on the front add to the general attractiveness of the design.



The interior arrangements are exceptionally convenient and modern. Each flat with its separate vestibule entrance is strictly private and has all the conveniences of a modern home on one floor. The living room, dining room and kitchen being on one side and the bedrooms and bath on the other, each side entirely independent of the other—this gives a privacy to the latter part of the house that is very desirable.

There is a large reception hall, living room and dining room, all being connected by cased openings which practically throws these rooms into one apartment. The chambers, bath room and kitchen are easy of access from the center hall, the pantry leading off the kitchen at the rear of the house. The back door opens on the rear porch which is covered by separate roof and gives to each tenement a private entrance to the back yard. The basement stairs being directly at the foot of the back porch makes it easy of access for both tenants.

The house is supplied with two chimneys, which simplifies the heating proposition.

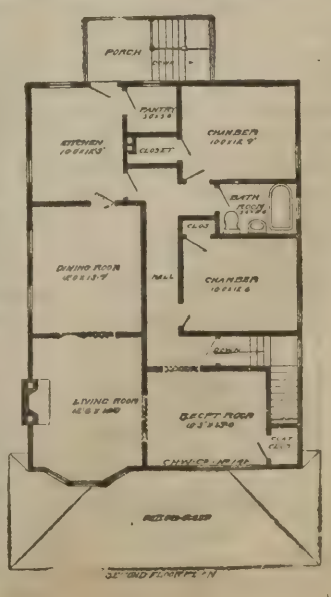
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for **$186.00**

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint) **$32.57**

Hot Air Furnace **$164.55**

Steam Heating Plant **$244.34**

Hot Water Heating Plant **$268.00**



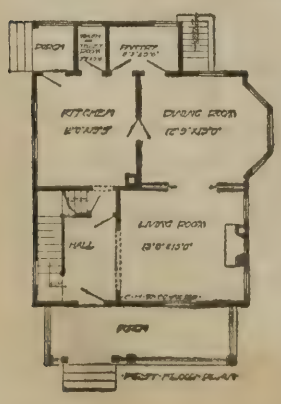
HOUSE DESIGN No. 139

SIZE, 29′ x 33′ 6″
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $798.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

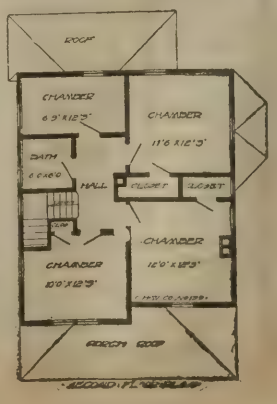
8 ROOMS AND BATH

THE design shown herewith is a modern house, of liberal dimensions and extremely handsome effect. In size it is 29 ft. wide by 33 ft. 6 in. deep, exclusive of porch, and it has every convenience and all the requirements of an up-to-date home. As already stated in our introduction, these houses are not picture houses but practical in every respect, and have been designed from suggestions, in many cases made by our customers or developed from many years of experience in actual construction. In presenting this design, we have sought to harmonize every feature. The front gable, the dormers, the wide porch, the bay windows, all lend to the general beauty of the house, while in the interior, it is as perfect as human ingenuity can make it. In the parlor we have a handsome fire-place flanked on either side by leaded glazed windows. The beautiful bay window in the dining room gives not only ample light and perfect ventilation but an extremely pleasing effect which is further enhanced by the leaded glass window in the rear of the room. The kitchen is large and well lighted and entry to the commodious pantry is effected through either the dining room or kitchen. We have besides a small room entering into the kitchen intended for a wash room or lavatory. On the second floor we have four good sized bedrooms, bath room and plenty of closets. Altogether, this house offers anyone wishing a modern, up-to-date roomy home, every advantage and convenience of a house of much higher cost.



The materials we furnish for this design are all extra good qualities and are described generally in this book under the head of **"Material Specifications."** We also ask you to read our **Free Plan Proposition** by which you can get full and complete information regarding any of our designs.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this Catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for....**$92.50**
Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint) **$27.54**
Hot Air Furnace.....**$127.50**
Steam Heating Plant.....**$202.35**
Hot Water Heating Plant.....**$245.77**



HOUSE DESIGN No. 133

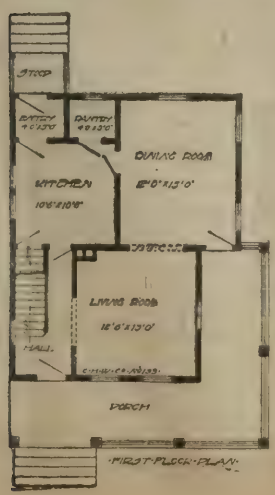
SIZE, 24'x 29'6" EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $710.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

7 ROOMS AND BATH

IN our Design No. 133, 24 ft. by 29 ft. 6 in. in size, we present a combination of country and city home. The distinguishing feature of this design is the large veranda extending across the front and along the side of the house. This feature appeals strongly to those who are fond of out-door life. In interior arrangements, this design has all the comforts of a modern home. Our chief aim has been to utilize every inch of available space to the best possible advantage, without unduly increasing the cost, and we believe we have succeeded. Though the house is of moderate size, the rooms are all comfortably large. There is no waste of room where not needed.

The main stairway is modern in design and construction and adds much to the general attractiveness of the interior. The large cased openings connecting the hall, living room and dining room, lend additional roominess to the already comfortable dimensions. The pantry is so placed as to be easy of access from both the kitchen and dining room. There are three chambers on the second floor, each provided with a closet, and opening directly into the center hall, with a linen closet also opening from the latter. The hall is lighted by a large window on the stairs and may be readily ventilated. There are no dark corners anywhere. The windows are large and placed to insure perfect light and ventilation and yet leave plenty of space for furniture.

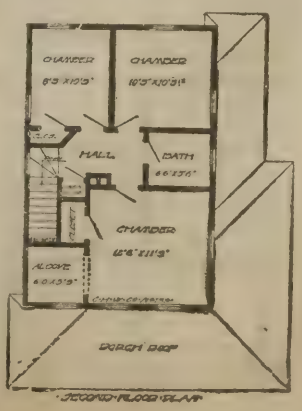


Although our **"Material Specifications"** outline fully the general class of material that we furnish on all of our designs, the material list covering the above design will show exceptionally good qualities, in every way suitable and desirable for a first class job and will be an agreeable surprise for intending purchasers.

Our **Free Plan** Offer in the preceding pages describes fully how you can secure a set of plans, specifications and list of material **Free of Charge.** It will be well to read this interesting offer carefully.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....$97.50

Paint for entire job including hard oil finish for interior for two coat work, (including porch floor paint, but no other floor or roof paint)..$ 27.89
Hot Air Furnace.....$107.10
Steam Heating Plant.....$179.01
Hot Water Heating Plant.....$204.42



HOUSE DESIGN No. 129

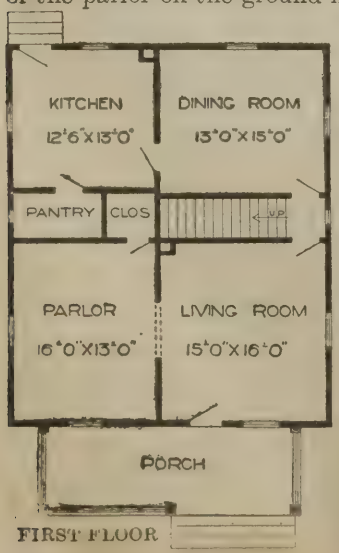
SIZE, 29′ 6″ x 34′ 6″
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $678.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

6 ROOMS AND BATH

THIS house is 29 ft. 6 in. wide by 34 ft. 6 in. deep, exclusive of porches. There are four exceptionally large rooms, besides pantry and closet on the first floor, and two chambers and bath on the second floor. The back portion of the house is but one story high, thus saving considerable in the cost of the construction. This house has been designed for people who prefer a limited number of large rooms to a greater number of smaller rooms and its compact arrangement makes it especially economical in cost of construction. This is an exceptionally good farm or country house, where large rooms without waste space are desired.

The interior arrangement may be altered to suit individual requirements without increasing the cost. In place of the parlor on the ground floor a reception hall may be provided with an open stairway leading from first to second floors. In that event an extra room could be provided on the second floor. We shall be pleased to make any changes suggested.

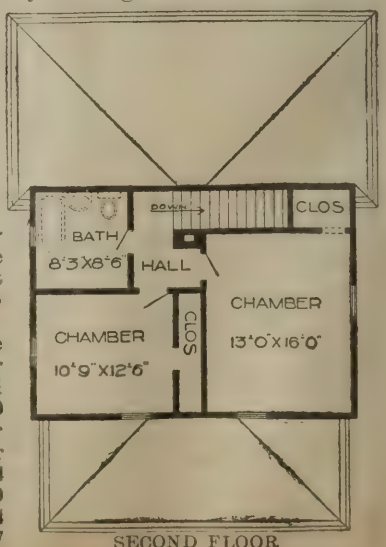


FIRST FLOOR

The materials we furnish for the construction of this as for all of our designs is strictly **Brand New** stock as described on preceding pages. The selection has been made to meet the requirements of this particular design and every possible waste has been eliminated to keep the cost down at the lowest possible point. We believe that for the amount of space provided, this house may be built cheaper than many other designs. We furnish Blue Print Plans and Specifications free as outlined in our **Free Plan Proposition** and invite your attention to same.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....**$98.00**

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....**$25.44**
Hot Air Furnace.....**$91.80**
Steam Heating Plant.....**$169.84**
Hot Water Heating Plant.....**$190.37**



SECOND FLOOR

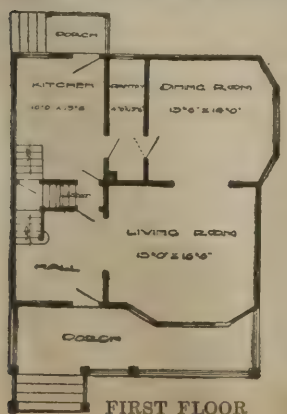
HOUSE DESIGN No. 134

SIZE, 30′ x 30′
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $810.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

8 ROOMS AND BATH

IN the above we present a design that in roominess, comfort and convenience will meet the requirements of the most exacting. In size it is 30 ft. wide by 30 ft. long, exclusive of the porch. The swell front or bay windows, the handsome dormer and the massive colonial porch give the exterior an exceedingly pleasing and substantial effect. The interior arrangements have been developed to meet the requirements of a modern home. The pantry is placed between the kitchen and dining room, thus saving many unnecessary steps. The stairway to the basement is directly under the front stairway, and entry to the kitchen may be made through the front hall without passing through the other rooms. The chimney is so placed as to make heating the house the most economical possible, either by stoves, hot water, furnace or steam heat. The large cased openings between the dining room, living room and hall lend additional roominess to the interior and set off admirably the handsome stairway leading to the second floor. We call special attention to the fact that ascent to the second floor can be made from either front hall or the kitchen in the rear, which is an added convenience generally appreciated.



FIRST FLOOR

The landing of the stairway on the second floor is directly in the center of the house with direct entrance to each of the four bedrooms and bath, ensuring complete privacy to its occupants.

It is one of our leading and most popular designs and we are supplying the material necessary for its construction in extra good quality therein.

In this book you will find further information regarding the quality of material, under the head of **"Material Specifications,"** and our **Free Plan** Proposition is also fully described. If you are interested in this or any of our designs and are looking for a real bargain write us fully.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for ...$92.50

Paint for entire job including hard oil finish, for interior for two coat work (including porch floor paint, but no other floor or roof paint).....$30.00

Hot Air Furnace.....$127.50

Steam Heating Plant.....$209.67

Hot Water Heating Plant.....$257.90

SECOND FLOOR

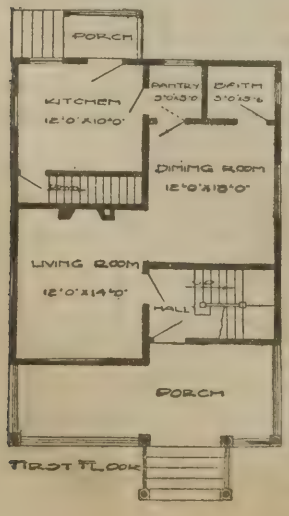
HOUSE DESIGN No. 136

SIZE, 25'6" x 28'6"
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE. $695.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

7 ROOMS AND BATH

BY way of variety and to meet the demands of varying tastes, we present herewith our design No. 136 the size of which is 25 ft. 6 in. wide by 28 ft. 6 in. deep that may at first sight seem out of the ordinary with the wide gables at the front, but the massive porch extending across the front of the house offsets any peculiarities that may exist in the construction of the roof. We have had so many calls for houses with bath rooms on first floor that we have developed this design to meet this special need. We have, on the first floor, living room, dining room, kitchen, pantry and bath. Entrance to the pantry may be had through the kitchen and dining room as well, making it especially convenient. The fire place in the large living room adds cheerfulness to the interior and makes heating of the house economical. The stair hall may be closed off from the other rooms if desired, preventing waste of heat if it is desired to heat the house with stoves.



Landing on the second floor is in a front hall which leads directly to the four bedrooms. One of the rear bedrooms may be converted into a bathroom at a very slight additional cost, since one set of "roughing in" plumbing material may be utilized for both bathrooms. Everything we furnish for this house, as in all of our other designs, is strictly **Brand New** stock and we ask that you carefully read over our **Free Plan Proposition** and a description of the material that we supply for the construction of these designs as detailed in the preceding pages of this catalog.

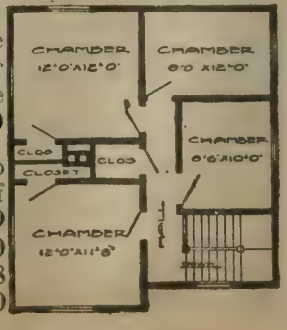
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....**$97.50**

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....**$27.09**

Hot Air Furnace.....**$113.30**

Steam Heating Plant.....**$166.18**

Hot Water Heating Plant.....**$184.30**



HOUSE DESIGN No. 138

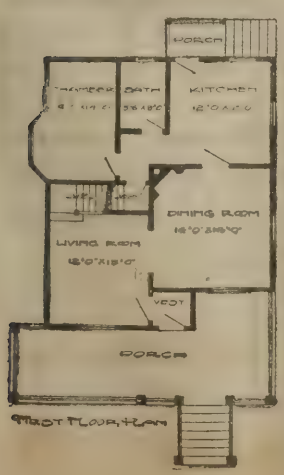
SIZE, 29'6"x32'
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $810.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

8 ROOMS AND BATH

THIS house is 29 ft. 6 in. by 32 ft. It has been designed to meet the special requirements of those who from choice or the necessities of their situation want all the conveniences on the main floor of the house, yet prefer a two-story house to the one-story cottage. The house has many attractive and artistic features, though it is not always possible for the designer to bring out the salient lines under the restrictions imposed by the space available for its reproduction in a catalog of this size. The harmonious effects would be better appreciated from an inspection of the scale drawings. To that special class who demand the conveniences as here arranged, this house offers many advantages.

We have on the ground floor, three good sized living rooms, bedroom and bath room. The stairway leading from the living room is of the open order and access to the basement may be had directly underneath it, thus economizing the available space. On the second floor are four good sized bedrooms, each provided with a closet. The house is well lighted and perfectly ventilated and is in every respect a comfortable and convenient home. The interior arrangements may be altered to meet special requirements.



FIRST FLOOR PLAN

The porch is exceptionally large and desirable, extending on the left side beyond the front of the house proper and giving it an imposing, artistic, as well as unusually massive appearance.

Kindly read our **Free Plan Proposition** as outlined, and for a description of our materials, you are earnestly requested to carefully read our **Material Specifications** section in preceding pages. "You will profit by so doing."

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for **$92.50**

Paint for entire job including hard oil finish for interior for two coat work, (including porch floor paint, but no other floor or roof paint)..... **$27.09**
Hot Air Furnace..... **$124.25**
Steam Heating Plant **$206.00**
Hot Water Heating Plant **$243.74**

SECOND FLOOR PLAN

HOUSE DESIGN No. 147

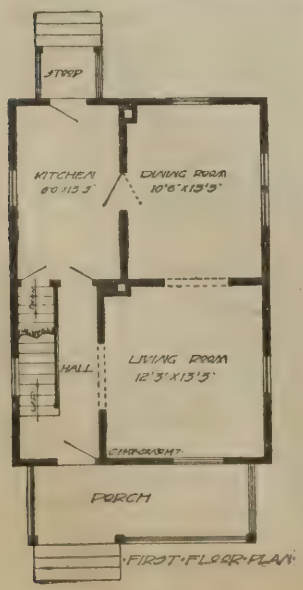
SIZE, 20′ x 28′
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $570.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

6 ROOMS AND BATH

THE above design is 20 ft. wide by 28 ft. deep exclusive of the porch and has been developed along the lines of a modern home and provided with every essential convenience possible in the limited space available.

The front elevation shows a colonial pattern, the square paneled porch columns giving it an especially striking and handsome effect, which appeals strongly to people of good taste. There are three good sized rooms on the first floor, in addition to the front hall, and so arranged as to make communication between them especially easy On the second floor, we have three bed rooms and bath, besides the usual closets. Also the large front room can be divided so as to have a child's room or sewing room by merely moving one partition and adding one door, the extra cost of which would not amount to over three or four dollars.

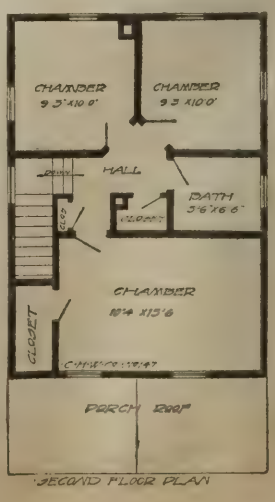


With a chimney placed in the center of the house, the whole house may be easily heated in the most economical manner either by stove or heater in the basement.

This design presents many features that appeal to people of moderate means as it offers many conveniences at a very low cost. The price at which we are selling the material for this design is exceptionally low and will enable anyone to secure a comfortable and modern home for very little money. The material we furnish is all strictly BRAND NEW with the quality in keeping with the general character of the design, and we ask you to kindly read our **Material Specifications,** also our **Free Plan Proposition** as outlined in preceding pages.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for..**$98.00**

Paint for the entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....**$24.42**
Hot Air Furnace.....**$93.05**
Steam Heating Plant.....**$164.34**
Hot Water Heating Plant.....**$184.30**



HOUSE DESIGN No. 117

SIZE, 39' 6" x 27'
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $550.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

6 ROOMS AND BATH

WE present herewith a bungalow intended for a wide city or suburban lot. In size it is 39 ft. 6 in. by 27 ft. deep. It has a living room, dining room, kitchen, pantry, three bed rooms and a bath room and is in every way a complete and modern home on one floor. The fire-place in the corner of the living room adds cheerfulness to the surroundings. All the rooms are of easy access from the living room of the house. There are no waste spaces where not needed and the whole plan has been developed not only for convenience and beauty but in harmony with the general character of the bungalow pattern. For a summer or suburban home, this class of house offers many advantages not possible in designs of different construction, and we especially recommend this design to people of good taste and moderate means as an ideal home at a comparatively small cost.

The Bungalow pattern of construction was at first employed only in houses intended for temporary use, but their beautiful outlines and great convenience soon brought them into rapid favor as suburban and city homes. In this design we show one of the most pleasing examples of this deservedly popular style.

The material we furnish is all **Brand New** stock as described in our **Material Specifications** and we also furnish **Free Plans,** specifications and list of material for each of our designs as outlined in preceding pages.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for..**$97.50**

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint)..... **$19.70**
Hot Air Furnace..... $83.05
Steam Heating Plant.....**$147.84**
Hot Water Heating Plant.....**$176.21**

HOUSE DESIGN No. 119

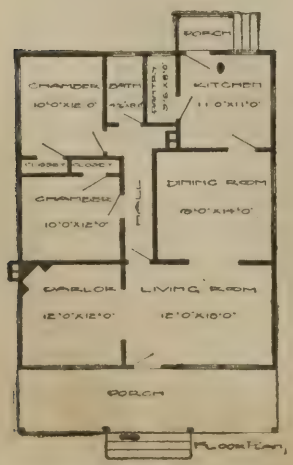
SIZE, 31′ 6″ x 38′
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $645.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

6 ROOMS AND BATH

DESIGN No 119 is a further development of the bungalow pattern of house construction; with its six rooms, pantry and bath, it has all the conveniences on one floor. In size it is 31 ft. 6 in. wide by 38 ft. long, exclusive of the porch with a hip roof and wide eaves extending over the porch. It carries out the extreme simplicity characteristic of this style and is exceptionally pleasing to the eye in external effect. Entrance is made directly into the living room from which all the other rooms are easy of access. The house has an abundance of closets and every convenience required. The windows are large and numerous and placed to insure ample light and perfect ventilation. The interior can be changed to suit individual tastes if desired, as there is ample floor space to work on.

This design appeals strongly to people who prefer the bungalow style of construction, as by reason of its compactness of arrangement, it may be constructed at a minimum cost and still provide all the essential conveniences of a modern city home.



The material we supply is all strictly **Brand New** stock of a quality in keeping with the general design. For further information as to the quality of the stock we furnish, we refer you to our **Material Specifications** section where our material is described in detail. We also supply **Free Plans,** specifications and list of material showing the purpose for which every item is intended. A careful perusal of these sections will be of inestimable value to you.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....**$92.50**

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....**$18.95**
Hot Air Furnace.....**$ 86.95**
Steam Heating Plant.....**$173.51**
Hot Water Heating Plant.....**$192.39**

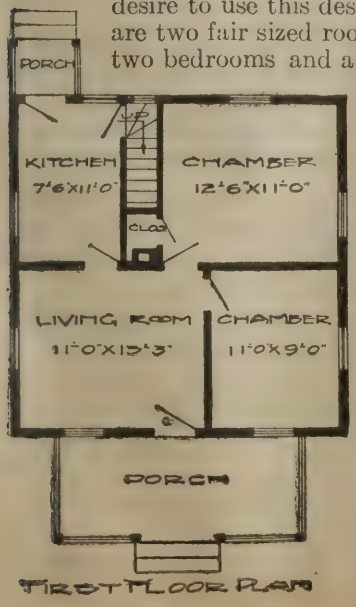
HOUSE DESIGN No. 122

SIZE, 24' x 24'
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, $430.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

6 ROOMS

THIS neat and comfortable cottage has a capacity of six rooms within space of 24 ft. by 24 ft. and is very little higher than an ordinary one-story house. We are furnishing material to build this house as a winter house, including sub-flooring and boxing, because it is a house that will meet the requirements of very many people. The window and door openings are trimmed with our plain mitered casing for paint work. For any who desire to use this design as a summer house we can omit the sub-flooring and boxing. On the second floor are two fair sized rooms with ample space for closets or store rooms. The first floor has large living room, two bedrooms and a good-sized kitchen. While the house is planned to heat with stoves with the use of one chimney, this can be changed very readily and a fire-place put in between the two doors. We furnish nothing but new material in this or any of our house designs, all of which is fully described in our List of Material, which also gives our catalogue numbers on doors and windows, finishing material, hardware, etc. By the use of our **Free** Blue Print Plans and Material Bill, anyone who is in any way familiar with building can complete one of our designs.



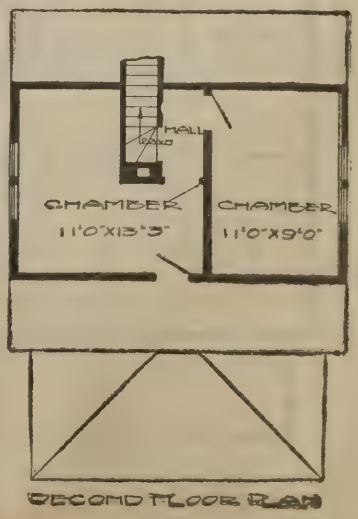
Plumbing Equipment for this house includes: One Flat Rim Sink; one 30-gallon galvanized iron range boiler. All necessary galvanized iron supply pipe fittings, lead trap for sink and faucets. Everything to make the outfit complete above the ground line, supplying hot and cold water to kitchen sink and including soil pipe. Does not include water front for stove. Price..... $18.00

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint)..... $ 17.93

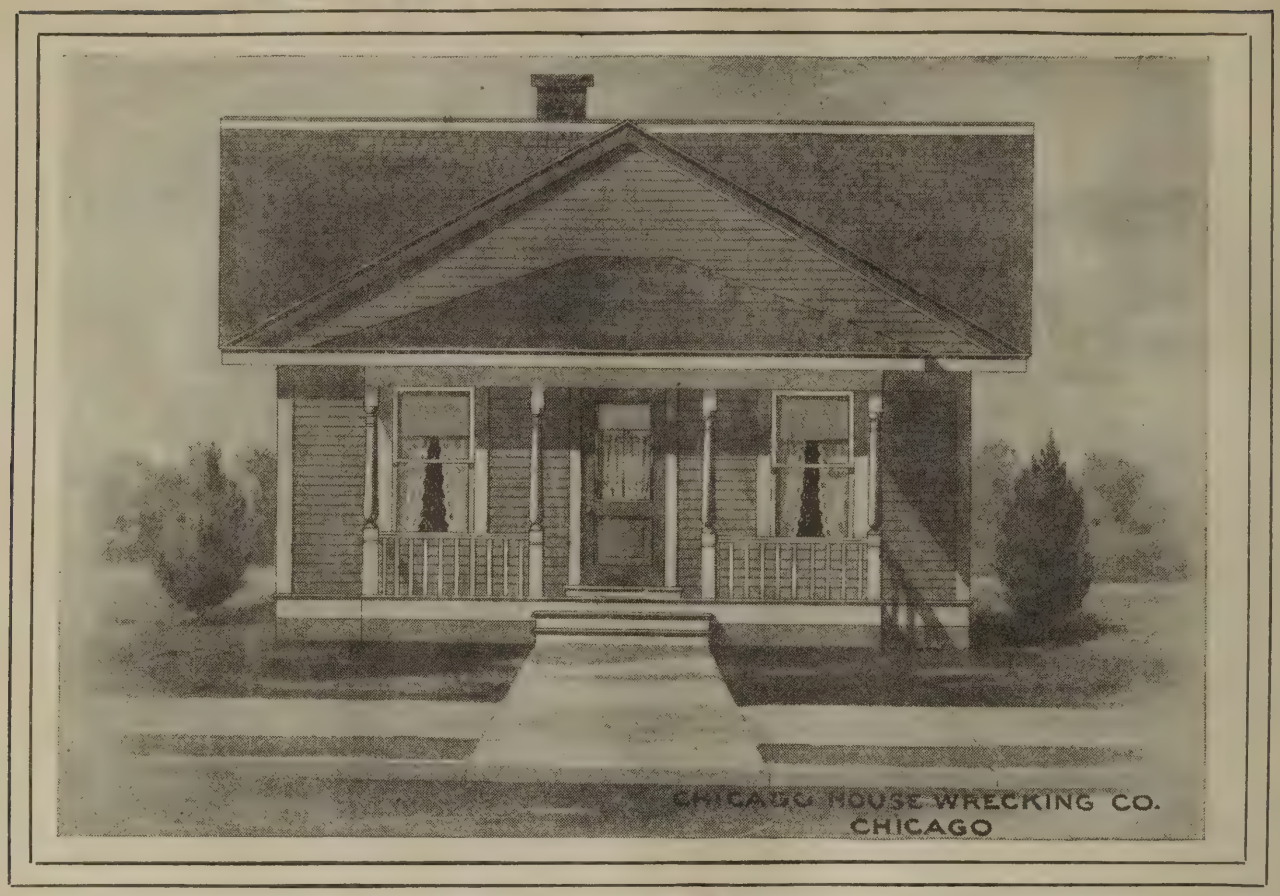
Hot Air Furnace..... 78.75

Steam Heating Plant..... 128.84

Hot Water Heating Plant..... 152.00



HOUSE DESIGN No. 102B

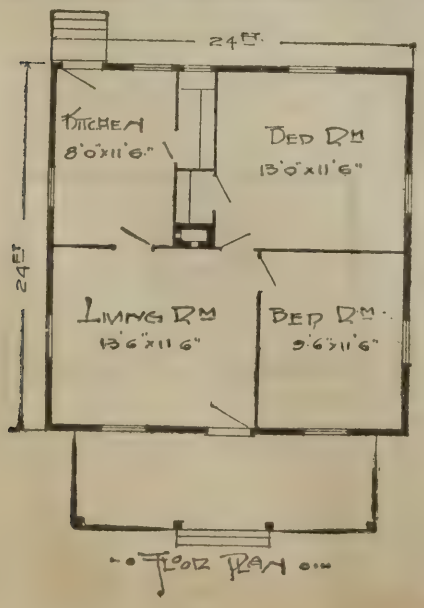


SIZE, 24' x 24'
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE: $290.00
(SUBJECT TO MARKET CHANGES)
Write for Actual Delivered Prices

4 ROOMS

IN the above we illustrate a neat four-room cottage, size 24 ft. by 24 ft., primarily designed for summer or seashore use, but it may be easily arranged for permanent occupancy by a slight change in the construction. Drop siding without sheeting is used for siding purposes, and the roof, our famous 3-ply Rubber-Galvo patent roofing, over dressed and matched roof sheeting laid solid. Of course, it is impossible in a house of this size to include all the modern conveniences so generally demanded in building construction at the present time. The design may be increased in size to suit individual necessities and the above is merely a suggestion of what may be done along this line.



In adapting this house for permanent use, the material we furnish is slightly different from that supplied if intended for a summer home, but the quality and character of the material are fully described in our bill of material that we furnish for each of our designs, and to anyone interested in this cottage, we shall be pleased to supply all the information required.

Do not forget that we bestow the same care in the selection of suitable material in the small as we do in the large houses. Harmony of design and economy of construction are never lost sight of, and our patrons have the assurance that everything has been worked out to the last detail.

We refer you especially to our **Free Plan Proposition** and ask you to carefully read our **Material Specifications** as outlined in the preceding pages.

Plumbing Equipment for this house includes: One Flat Rim Sink. One 30-gallon galvanized Range Boiler. All necessary galvanized iron supply pipe, fittings, lead trap for sink and faucets. Everything to make the outfit complete above the ground line supplying hot and cold water to kitchen sink and including soil pipe. Does not include Water Front for stove. **Price**.....**$18.00**

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....**$ 16.99**
Hot Air Furnace.....**59.80**
Steam Heating Plant.....**102.68**
Hot Water Heating Plant.....**118.23**

STRUCTURAL IRON WORK

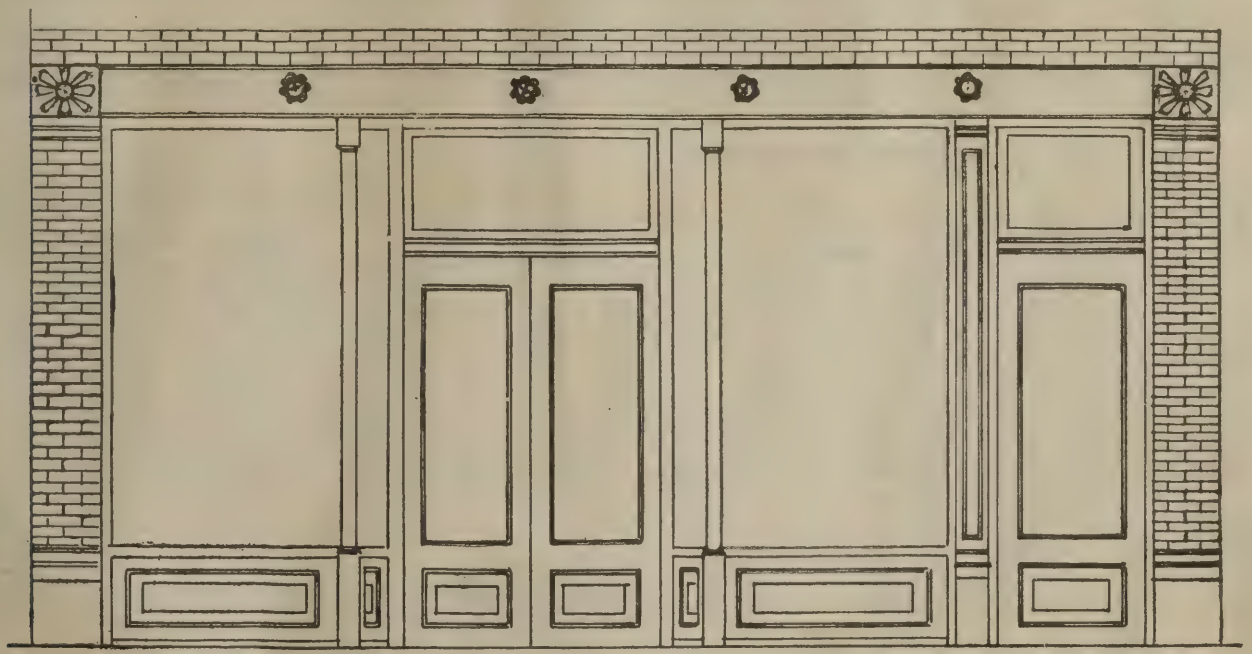
We have on hand at all times an immense stock of both brand new and second-hand structural steel of all kinds, including I Beams, Channels, Angles, T's and Columns, and have a first-class structural iron shop under the supervision of expert structural iron workers. We can save you money on anything that you may require in this line. We fabricate work so that same can be assembled on the job. Send us your plans and we will promptly make an estimate on your requirements, advising you as to the exact cost. You will find our prices to be big money savers.

SECOND-HAND STRUCTURAL IRON

Some prejudice may exist in your mind as to second-hand structural iron, you thinking it may be weakened by previous use. This is not the case. Stop and consider that we secure this material from World's Fairs, large public and other buildings that we dismantle. Much of this material has been in use comparatively a short time and was well painted and otherwise protected from rust and corrosion. We use only such material as is in good sound condition, and that is not in any way weakened by its former use.

STORE FRONTS

Owing to the many designs and varying weights and heights of buildings it is impossible to make prices on the necessary material without a plan. A rough sketch will do just as well as an architect's finished drawing. We show herewith illustration of a very popular store front such as is used on a 25 ft. lot.



It does not make any difference to us in figuring on requirements whether your building covers 25 ft. or a whole block. All that is necessary is that we have a drawing showing the construction, and other information that will enable us to figure on material of proper strength to stand required strain.

INFORMATION THAT WE MUST HAVE

First. Sketch or plan showing the work.

Second. If material for store front is required, give full width of building and state if any columns are to be used for the outside walls. If so, show on your sketch just what distances between walls the columns are to be placed.

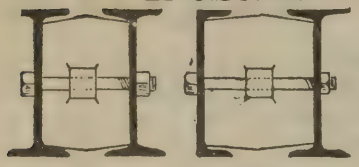
Third. Be sure and state the height and thickness of wall above the girders, so that we can determine the weights to be carried by the iron work.

Fourth. If the iron work is intended to carry the floors, state for what purpose the building is to be used, and mention the heaviest loads that will be carried on these floors.

Fifth. Always give us full information if you possibly can and submit sketches where it is possible for you to send them. Bear in mind a rough sketch is better than none and, furnished with all information that you can possibly give us, will help us to understand your requirements more readily and place us in a position to be of service to you.

STRUCTURAL IRON

Illustrations Showing Girders Most Commonly Used



A Style A

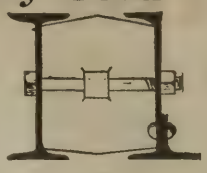
B Style B

No. 18-A-3. Style A Girder is composed of 2 I Beams of uniform size, provided with Bolts and Separators which separate and tie the beams according to the width of the wall.

No. 18-A-4. Style B Girder is composed of 1 I Beam and 1 Channel of uniform size, provided with Bolts and Separators.

No. 18-A-5. Style C Girder is composed of 1 I Beam and 1 Channel of uniform size, and angle bolted on the lower ontside edge of channel, projecting to carry brick wall, thus concealing the iron work.

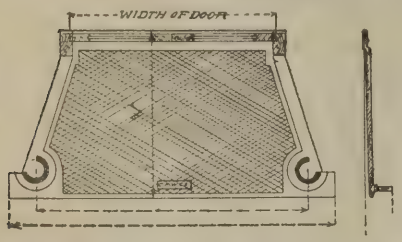
No. 18-A-6. Style D Girder or Lintel is composed of 1 Channel with an angle bolted to the lower outside of channel to carry brick work. This style girder is commonly used over doors and windows.



C Style C

D Style D

CAST IRON SILL PLATES.



No. 18-A-7. Cast Iron Door Sill Plates are made to order only. Complete measurements must be furnished, as drawn by dotted lines in illustration. These we guarantee to make in accordance with measurements furnished. Send sketch and measurements for prices.

ROSETTES.

No. 18-A-8. Used in connection with girder on outside of separator bolt end for ornamental purposes.

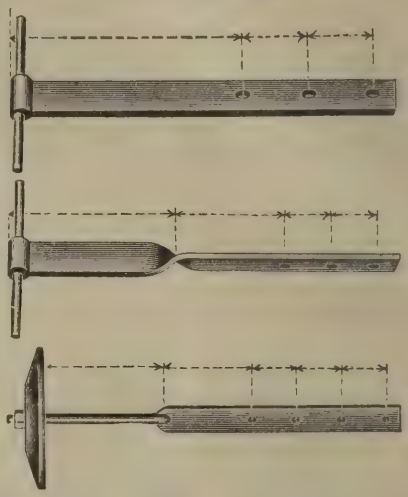
BEAM BLOCKS.

No. 18-A-9.

Used on I Beam Girder to conceal the end of girder. Also used to conceal joints of girders that are made up in two or more sections, giving a more finished appearance. Always state height and weight of beams in connection with which the beam block is to be used.

No. 18-A-21.

JOINT ANCHORS.



No. 18-A-10. (Plain Joist Anchors.)
No. 18-A-11. (Twisted Joist Anchors.)
No. 18-A-18. (Pin Strap Anchors.)

ILLUSTRATIONS SHOWING STRUCTURAL SHAPES.

Style E

Style F

Style G

Style H

No. 18-A-13. Style E shows I Beams which are made in standard sizes ranging from 3 to 24 inches high.

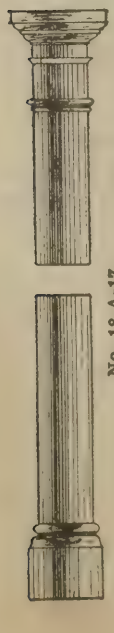
No. 18-A-14. Style F shows Channels which are made in standard sizes ranging from 3 to 15 inches high.

No. 18-A-15. Style G shows Angle Iron made with equal and unequal legs, sizes ranging from ¾ inches x ¾ inches to 8 inch x 8 inch.

No. 18-A-16. Style H shows T Iron made with equal and uneqal legs, sizes ranging from 1 inch x 1 inch to 4 inch x 4 inch.

We can furnish I Beams, Channels, Angles and T's cut to any length, either plain, punched, mitered or worked up in any manner possible. Send us your specifications.

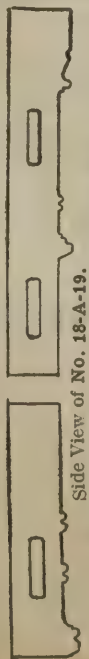
ILLUSTRATIONS SHOWING COLUMNS OF POPULAR STYLES.



No. 18-A-17.

No. 18-A-18.

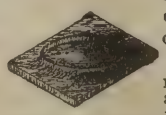
No. 18-A-19.



Side View of No. 18-A-19.

No. 18-A-20

We can furnish Columns, both new and second-hand, in any size or length that may be required. The illustration shows new columns, but we at all times have a large number of second-hand columns of slightly different styles. Send us your specifications and we will quote you some very interesting prices.



Cap and Base. No. 18-A-22.

TUBULAR COLUMNS.

There is a growing demand for a low price iron tubular column. We are now prepared to furnish a column of this kind which will meet with the various requirements. We furnish these tubular columns made of standard pipe, also of light tubing. The columns made of the light tubing are generally used where it is intended to fill them with concrete. A column can be filled with concrete at a very small expense and when so filled they are stronger than any cast iron column manufactured. The standard pipe columns can be treated in the same manner, although where it is intended they will be filled with concrete, the light tubular column will answer just as well as a pipe column. The light tubular columns are also especially desirable where a light load is to be carried, then of course, it is not necessary to fill them with concrete.

In connection with these columns we can furnish special recessed cast iron caps and bases. These caps and bases are made of ⅝ inch and 1 inch thick cast iron plates, on which there is ring cast, forming a recess, into which the ends of the column rest, forming a very satisfactory and substantial bearing.

Price quoted on Columns does not include Caps and Bases.

STANDARD PIPE COLUMNS.				LIGHT TUBULAR COLUMNS.			
Inside Diam.	Outside Diam.	Weight per ft.	Price per ft.	Inside Diam.	Outside Diam.	Weight per ft.	Price per ft.
3 in.	3½ in.	7½ lbs	$0.17	2¾ in.	3 in.	3½ lbs.	$0.08
3½ in.	4 in.	9 lbs	.19	3¼ in.	3½ in.	3¾ lbs.	.10
4 in.	4½ in.	10½ lbs	.21	3¾ in.	4 in.	5½ lbs.	.12
5 in.	5½ in.	14½ lbs	.30	5⅛ in.	6 in.	10 lbs.	.25
6 in.	6⅝ in.	18¾ lbs	.40				
8 in.	8⅝ in.	28 lbs	.65				

SPECIAL RECESSED CAPS AND BASES FOR TUBULAR COLUMNS.

DESCRIPTION.	Size of Plates	Price Per Set.
For 3 in. Standard Pipe and for 3½ in. O. D. Casing..	7x7x⅝	$0.85
For 3½ in. Standard Pipe and for 4 in. O. D. Casing..	7x7x⅝	0.85
For 4 in. Standard Pipe and for 4½ in. O. D. Casing..	8x8x⅝	1.00
For 6 in. Standard Pipe and for 6 in. O. D. Casing..	10x12x1″	2.25
For 8 in. Standard Pipe.....	12x12x1″	2.50

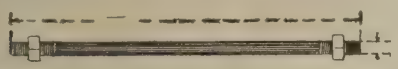
A set consists of two recessed plates as described.

Miscellaneous Structural Iron

TRUSS RODS.

No. 18-A-23. Style I. Lateral rods with welded eyes and turn buckles in center.

No. 18-A-24. Style J. Truss rods threaded on both ends, fitted with nuts, and with turn buckles in the center.



No. 18-A-25. Style K. Plain Rods threaded on both ends and fitted with nuts.

We can supply lateral, truss and plain rods made up in any length or from any size rods desired. Send us your specifications, giving length and diameter and we will gladly submit prices.

No. 18-A-26. Style L. Anchor Bolts used for foundations, etc., made up in any length and of any size iron. Prices on application. Be sure and state length and diameter of bolt.

CAST IRON WASHERS.

Used on ends of truss and plain rods. Furnished only in standard sizes.

STAR WASHERS.
No. 18-A-27.

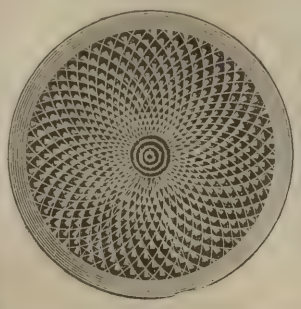
Diameter of Bolt, Inches.	Diam. Inches.	Thickness, Inches.
1¼	6	1
1¾	9	1½
2	10	1¼

STANDARD CAST WASHERS.
No. 18-A-28.

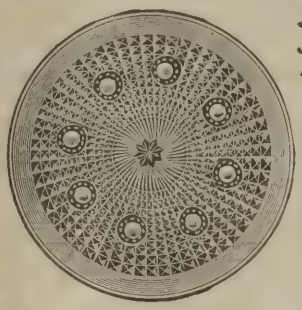
Diameter of Bolt.	A	B	Wgt. in lbs.
½	2⅜	⅛	½
⅝	3	¼	¾
¾	3½	¼	1¼
⅞	3¾	¼	1½
1	4	1⅛	2½
1¼	4½	1⅛	3
1½	6	1⅜	5¾
1¾	6½	1½	6
1¾	7¼	1½	9½
2	8¼	2	17¼
2¼	9¼	2¼	20
2½	10¼	2½	27¼
2¾	11¼	2¾	36
3	12¼	3	46

A, diameter of washer; B, thickness of washer.

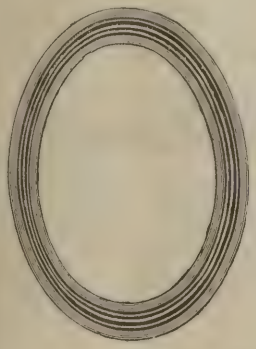
SIDE WALK COAL HOLE COVERS AND RINGS.



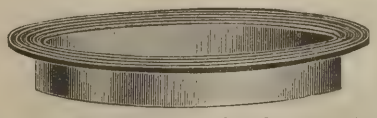
No. 18-A-30. Style M. Plain Cover; diameter 18 inches; weight 24 pounds. Price each..... **$1.00**



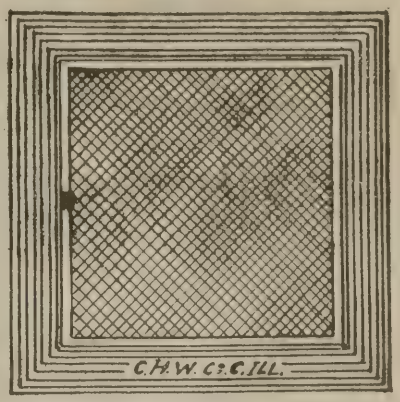
No. 18-A-31. Style N. Bull's Eye Glazed cover; 8 lights; diameter 18 inches; weight 25 pounds. Price each..... **$1.50**



No. 18-A-32. Style O. Ring for wood or stone sidewalk; outside diameter 22 inches; for 18 inch cover; weight 13 pounds. Price each.... **$0.65**



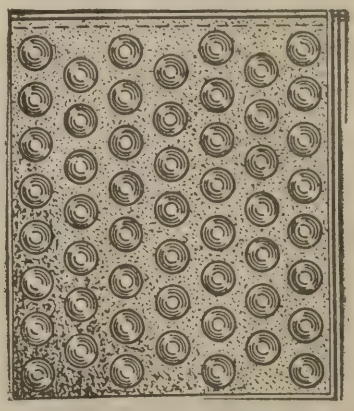
No. 18-A-33. Style P. Ring for cement side walk; outside diameter 22 inches; for 18 inch cover; weight 34 pounds. Price each..... **$1.50**



No. 18-A-34. Style Q. Plain Sidewalk covers and frames for cement sidewalk. Frame measures 25 inches square; cover measures 20 inches square; depth of flange 4 inches; weight of frame and cover combined 135 pounds.

We have approximately 200 of this lot which are second-hand, but in strictly first-class condition. Price..... **$2.75**

SIDE WALK LIGHTS.



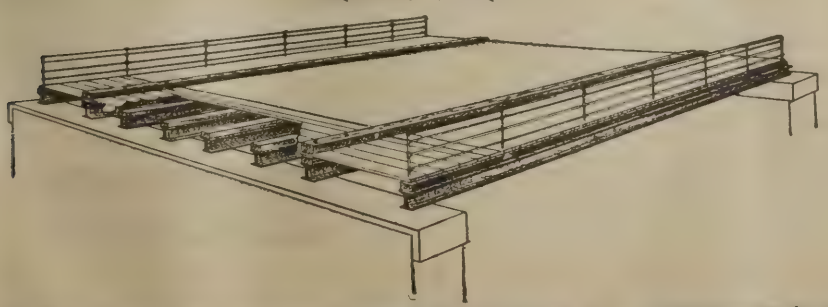
No. 18-A-35. Style R. For use over basements, slides, sidewalks, elevators, etc. Send sketch showing opening or area wanted cover.

RAIL ROAD SPIKES.

No. 18-A-40. Always on hand in standard sizes; full kegs containing 200 lbs. We will furnish quantity according to requirements.

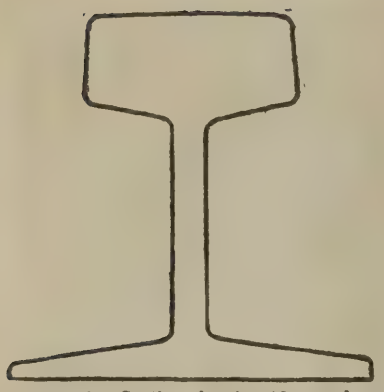
Size measured over head.	Average No. per Keg of 200 lbs.	Ties 2 feet between centres, 4 spikes per tie, makes per mile.	Rails Used Weight per yard.
5½ x 9/16	375	5870 lbs.—29⅓ kegs..	45 and over
5 x 9/16	400	5170 " 26 " ..	40 to 56
5 x ½	450	4660 " 23½ " ..	35 to 40
4½ x ½	530	3960 " 20 " ..	28 to 35
4 x ½	600	3520 " 17⅔ " ..	24 to 35
4½ x 7/16	680	3110 " 15⅔ " ..	20 to 30
4 x 7/16	720	2910 " 14¾ " ..	
3½ x 7/16	900	2350 " 11 " ..	16 to 25
4 x ⅜	1000	2090 " 10½ " ..	
3½ x ⅜	1190	1780 " 9 " ..	16 to 20
3 x ⅜	1240	1710 " 8⅔ " ..	
2½ x ⅜	1342	1575 " 7⅔ " ..	12 to 16
2½ x 5/16	2200	1000 " 5 " ..	8 to 10

BRIDGE WORK.

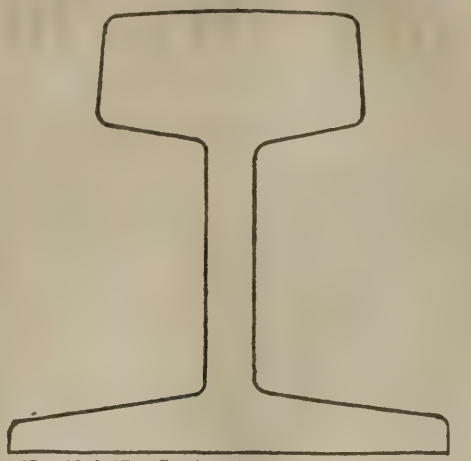


No. 18-A-29. We can supply common bridges of short spans that do not require truss work. Send us sketches and we will submit estimate for all material required, cut to proper lengths, fitted and punched, all ready to be put together, including necessary Bolts, Plates, etc. Be sure and state the heaviest load your bridge will have to carry.

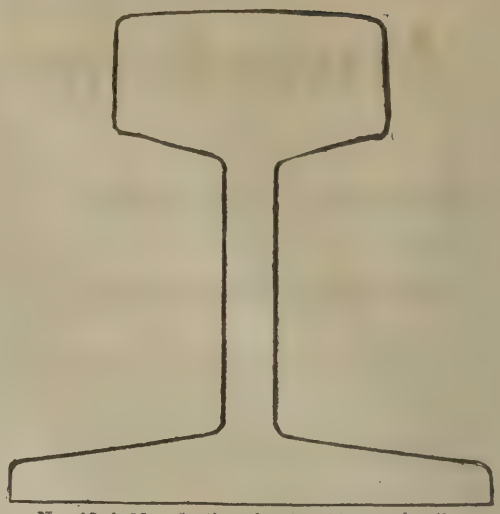
NEW AND RE-LAYING RAILS



No. 18-A-36. Section showing 12 pound rail.



No. 18-A-37. Section showing 16 pound rail.



No. 18-A-38. Section showing 20 pound rail.

We can quote low prices on new and re-laying rails for prompt delivery in 8, 12, 16, 20, 25, 30, 35, 40, 50, 60 and 70 lb. sections. Write us regarding your requirements, stating size and quantity and we will be pleased to quote you according to stock on hand.

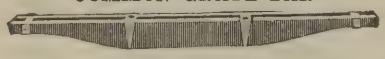
FISH PLATES

No. 18-A-39. We can furnish fish plates for rails in sizes required. Splices are always furnished complete with bolts.

GRATE BARS.

We can furnish new and second-hand Grate Bars. We generally have a stock of second-hand bars in good condition. We guarantee these bars to be practical for further use. Write us regarding your requirements and let us quote you money saving prices on either new or second-hand Grate Bars.

COMMON GRATE BAR



No. 18-A-41.

Length Inches.	Width Inches.	Weight Lbs.	Air Space, Inches.
24	2¼	20	½
26	2¼	22	½
27	2¼	23	½
28	2¼	24	½
30	2¼	26	½
33	2¼	34	½
36	3	36	½
42	3	40	½
48	3	48	½
54	3	54	½
60	3	68	½

FOR HERRING-BONE GRATE BAR

No. 18-A-42.

Length Inches.	Width Inches.	Air Space, Inches.	Weight, Lbs.
30	6	½	50
36	6	½	62
42	6	½	78
48	6	½	105
54	6	½	110
56	6	½	115
60	6	½	128
72	6	½	180

Common Grate Bars—Heavy Pattern

No. 18-A-43.

Length, Inches.	Width Inches.	Weight, Lbs.	Air Space, Inches.
42	3	50	⅝
48	3	61	⅝
50	3	62	⅝
54	3	68	⅝
60	3	83	⅝
66	3½	104	⅝
72	3½	114	⅝

Diagonal Grate Bars for Burning Slack Coal.

No.18-A-44.

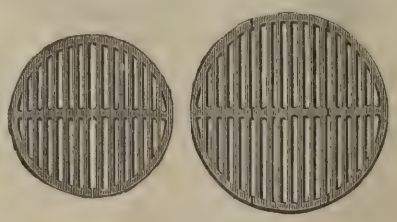
Length, Inches.	Width, Inches.	Air Space, Inches.	Weight, Lbs.
30	5	⅝	50
36	5	⅝	60
39	6	⅝	86

Perforated Grate Bar

No. 18-A-45.

Length, Inches.	Width, Inches.	Weight, Lbs.
30	6	32
36	6	45
42	6	59
48	6	72
54	6	83
60	6	94

Round Grate Bars for Upright Boilers



No. 18-A-46.

In two parts.		In three parts.			
		in. dia.	lbs.	in. dia.	lbs.
16 in dia.	45 lbs.	26	120	34	185
18 "	50 "	27	122	35	220
20 "	75 "	28	125	36	225
22 "	85 "	29	142	40	370
24 "	95 "	30	145	42	390
25 "	100 "	32	175	43	400
		33	179		

Highest quality possible at prices asked by others for the ordinary kind.

CULVERTS.

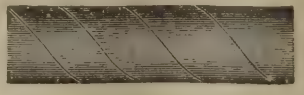
No. 18-A-47. Galvanized Corrugated Culverts, made of special iron heavily galvanized. By an improved special method preventing corrosion, the metal is chemically different from ordinary steel and has no equal for the purposes intended. It withstands alkali and sulphur and has proved the most satisfactory for underground conductor purposes. The special corrugations make it many times stronger than plain pipe of the same thickness. These culverts are made up in sections 2 feet long, each section having an angle flange 1 inch high turned up at each end. The sections are then firmly attached by riveting the two flanges to the adjoining sections securely together from end to end, and can be coupled to any even length. Shipped direct from factory, Central Indiana.

Size inches.	Price per foot.
8	$0.54
10	.63
12	.72
14	.81
16	.90
18	1.00
20	1.22
24	1.50
30	2.00
36	2.70
42	3.38
48	3.83
60	4.73
72	5.85

STEEL CULVERTS.

No. 18-A-48. We have a large stock of heavy-steel culverts which are of interest to township and road commissioners. These culverts range in size from 6 to 72 inches in diameter, and in lengths up to 20 feet These culverts are much stronger

No. 18-A-49.



and more durable than the galvanized corrugated culverts, and for this reason are generally used in all public work. Write us for special prices on sizes that you want. We guarantee to save you big money and supply culverts that will be in every way satisfactory.

Konkrete King Building Block Machine

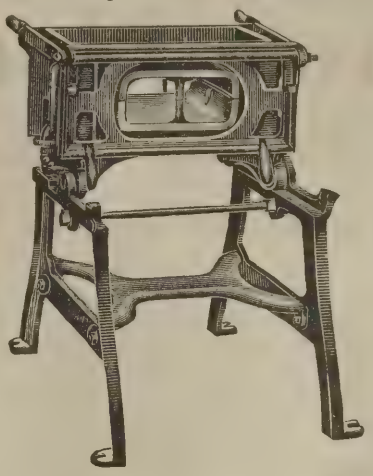
Face Down, Vertical Core. Guaranteed to Make as Perfect Blocks as Any Machine on the Market, Regardless of Price. Sold on 10 Days' Trial. Your Money Back if Not Satisfactory.

KONKRETE KING BLOCK MACHINE is made with an entirely new improved adjustable rocker arm, which absolutely prevents the block getting out of square and will produce the most perfect block possible to manufacture. This great feature is not found in any other machine of this type.

THE FACE DOWN principle is conceded by all concrete engineers to be the best. With the face down the block can be made with a cement face of a mixture of three to one, or two to one, and the back made with a mixture of five to one The face of the block is the portion that is exposed to the weather, and only the best cement will stand exposure without showing the effect of the weather. For this reason the **FACE DOWN** machine is a great advantage over any other style, and, in fact, is the only first-class machine manufactured.

THE CONSTRUCTION OF THE KONKRETE KING BUILDING BLOCK MACHINE is the most simple, having no cogs, springs or any other parts that are complicated, or that can clog or get out of order. The operation is so easy and simple that a boy can operate it without previous experience. The frame and flasks are made of an extra high grade of gray iron castings of unusual toughness and is carefully and strongly bolted, making the strongest and most durable machine constructed. The flask consists of front and back walls, two core end doors, face plate, two improved rocker arms and iron pallet, fitted in the most perfect mechanical and workmanlike manner. The end doors are hinged to the face plate, which opens easily when releasing block. The face plate is bolted to the improved, adjustable rocker arm, keeping the block in the square and preventing the marring or breaking of the block, which cannot be done without exercising unusual care with any other style Block Machine.

WE GUARANTEE OUR KONKRETE KING to produce a greater number of perfect blocks in the same length of time than any other machine of a similar kind manufactured.



$16.45

Buys Complete Outfit for Making 8x8x16 inch and Fractional Size Building Blocks.

WE OFFER A 10 DAYS' TRIAL which will give you sufficient opportunity to thoroughly test the machine and compare it with any other in use in your locality. If you do not find it to be the best machine from all standpoints, and if not in every way as we represent it, or should it not be satisfactory to you for any reason (and you will be the sole judge), you may return it to our factory at our expense and we will refund your money; also any freight charges which you have paid.

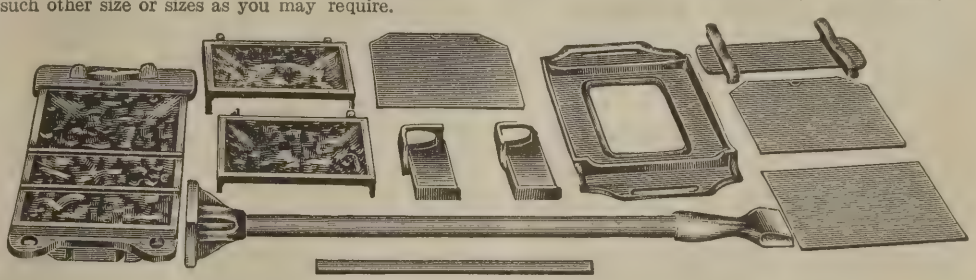
CAPACITY. We are often asked how many blocks will a **KONKRETE KING BLOCK MACHINE** turn out in a day. In answer to this question, wish to state that one man can turn out 100 blocks and two men can easily turn out 175 blocks, and this amount is only an ordinary day's work. By actual test, under ordinary conditions, one man has turned out 125 blocks and two men 250 blocks, all perfect. However, it is needless to say that the output depends entirely upon working ability of the operator. After a little practice, anyone can turn out the number of blocks specified.

PALLETS. The Konkrete King Block Machine is made for use with iron pallets only. The use of wood pallets is not recommended by those expert in concrete work, and as far as cost is concerned, the first cost of an iron pallet is but little more than that of a wooden pallet, and in the end the iron pallets are much cheaper, inasmuch as they are indestructible and do not warp. Further, it is possible to turn out a more perfect block. More blocks are lost on account of using wooden pallets than the value represented by a full set of iron pallets. We recommend the purchase of not less than 25 iron pallets with each machine.

SINGLE OR DOUBLE CORE. We furnish our Konkrete King Block Machine with either single or double core flasks, whichever you prefer, but unless otherwise stated, we ship the machine with the single core flasks. The Konkrete King is made in three sizes and are constructed that any one of the thre flasks can be used on one standard. This is a great advantage, for should you wish to make blocks of two or three sizes, it is necessary to order only one Block Machine and flasks of such other size or sizes as you may require.

OUR OUTFIT IS MORE COMPLETE, containing more parts than are furnished with any other machine. Make a comparison and satisfy yourself that we are giving the greatest value ever offered in the Concrete Block Machine line. The outfit consists of the Machine with face plate,

- 2 dividing plates,
- 1 gable block dividing plate,
- 2 return end doors,
- 2 core gates,
- 2 joist block attachments,
- 1 face plate for making half and quarter blocks,
- 1 striker,
- 1 double end tamper,
- 1 sample of iron pallet.



With this outfit you can make a whole block. Also fractional sizes, in fact, the machine is in every sense complete. You can make any design block on the **KONKRETE KING MACHINE.**

WE FURNISH WITH OUTFIT one face plate of the following designs: Plain, Rock, Panel or Cobble face to make whole, half and quarter blocks with end doors to match, but if not otherwise specified, we will furnish **THE ROCK FACE.**

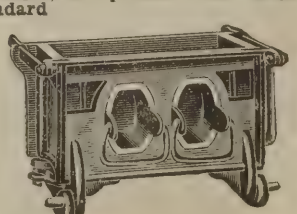
KONKRETE KING BUILDING BLOCK MACHINES are shipped direct from factory, Central Ohio. They are carefully crated to withstand any rough handling in shipment, and will take the lowest possible freight rate. We will guarantee machine to arrive at destination in good condition.

No. 4-A-1452. Konkrete King Building Block Machine. Complete outfit for making 8x8x16″ blocks. Shipping weight, 197 pounds. Price **$16.45**
No. 4-A-1453. Konkrete King Building Block Machine. Complete outfit for making 8x10x16″ blocks. Shipping weight, 215 pounds. Price **19.90**
No. 4-A-1454. Konkrete King Building Block Machine. Complete outfit for making 8x12x16″ blocks. Shipping weight, 235 pounds. Price **23.50**

KONKRETE KING FLASK ATTACHMENTS. All Flasks Are Made to Fit One Standard

Illustrations show single and double core flask attachments, and as explained above, these flask attachments can be used on any of the standards. Should you order one of our 8x8x16″ Konkrete Block Machines, and wish to make 8x10x16″ blocks, it is not necessary to order two complete machines. Order one machine complete and an extra flask. You will, of course, understand that you cannot make both size blocks at one time. If you have sufficient work we recommend ordering a complete machine for each size block that you wish to make.

No. 4-A-1455. 8x8x16″ Konkrete King Flask Attachment complete. Shipping weight, 100 pounds. Price..... **$10.95**
No. 4-A-1456. 8x10x16″ Konkrete King Flask Attachment, complete. Shipping weight, 125 pounds. Price..... **$13.85**
No. 4-A-1457. 8x12x16″ Konkrete King Flask Attachment, complete. Shipping weight, 160 pounds. Price..... **$16.95**



Extra Face Plates for Konkrete King Block Machine. Face Plates are interchangeable and Will Fit Any Size Konkrete King Flask.

No. 4-A-1458. Face Plate for whole block. Be sure and mention design wanted. Weight, 17 pounds. Price..... **$1.27**
No. 4-A-1459. Face Plate for half and two quarter blocks. Be sure and mention design wanted. Weight, 17 pounds. Price..... **$1.30**

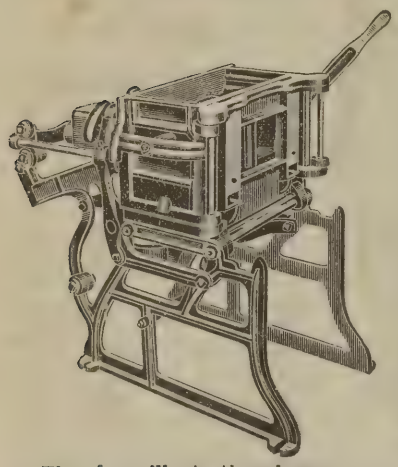
SPECIAL NOTE.—When placing your order for Face Plates, Bay Window and 4-Inch Course Block Attachment, do not fail to mention design desired. When ordering Circle Block Attachment, be sure and mention design wanted; also state whether 8, 10 or 12-foot radius. When ordering End Doors be sure and mention whether right or left hand and the design that is wanted. All Face Plates used in connection with the Konkrete King Block Machine are interchangeable with the different sizes. Face Plates and Parts of **Konkrete King Machine** are not interchangeable with the X. L. ALL MACHINE.

EXTRAS FOR KONKRETE KING BLOCK MACHINE

	For 8x8x16-Inch Machine			For 8x10x16-Inch Machine			For 8x12x16-Inch Machine		
	Catalog No.	Weight Pounds	Price each	Catalog No.	Weight Pounds	Price each	Catalog No.	Weight Pounds	Price each
Return End Doors, right or left	4-A-1460	7½	$0.70	4-A-1465	8	$0.90	4-A-1470	10	$1.20
Bay Window Attachment	4-A-1461	35	2.90	4-A-1466	35	3.25	4-A-1471	40	3.85
Circle Block Attachment	4-A-1462	30	2.90	4-A-1467	40	3.50	4-A-1472	45	4.25
Four-Inch Course Block Attachment	4-A-1463	56	4.75	4-A-1468	50	5.50	4-A-1473	50	6.25
Dividing Pallets for 4-Inch Course Blocks	4-A-1464	7	.23	4-A-1469	8	.26	4-A-1474	10	.32
Iron Pallets		7	.23		8	.29		10	.35

X-L-ALL Combination Face Down Block Machine

The Only Machine Manufactured That Combines Practical Brick and Block-Making Moulds



The above illustration shows our X-L-ALL block machine with mould box closed, ready to receive material.

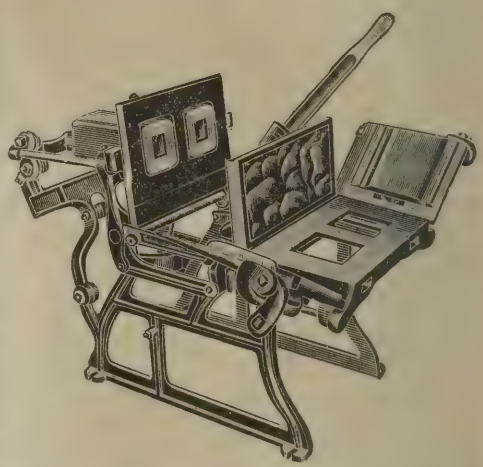
THE X-L-ALL MACHINE of the new model which we offer has been designed to fill the demand of the contractor and the concrete block manufacturer, for a machine in which both brick and blocks can be made. This has been accomplished by designing a brick mould, which is inter-changeable with the block mould, and will fit the standard of either of the three sizes which we offer in block making machines.

THE X-L-ALL MACHINE is designed for the use of the contractor and concrete block and brick manufacturer; in fact, it is the best machine that can possibly be made for the use of any one who contemplates making bricks or blocks in any quantity.

It is the fastest machine on the market and extremely simple in construction and operation, as you will note from the illustrations, having absolutely no complicated parts to get out of order. Each machine is made in a thorough workmanlike manner with best gray iron castings; all parts are machine finished and made interchangeable.

In offering to our trade THE X-L-ALL MACHINE it is only after much investigation and thorough examination of all high-grade machines now in the market that our concrete expert concluded that THE X-L-ALL MACHINE combined all the advantages that could possibly be obtained in a strictly first-class machine. We are not experimenting at the expense of our customers, but offer this machine under the following guarantee:

We guarantee THE X-L-ALL MACHINE to be the FASTEST and most perfect face-down vertical core block machine of its type ever offered, and that it will in every respect be satisfactory to you and in every way as represented. We further guarantee that it will arrive at your station in perfect condition, and to replace any part that may prove defective either through material or workmanship for a period of one year from date of purchase. Should any part become broken or lost on receipt, have your agent note such parts broken or lost on the Bill of Lading, which you will send to us, and we will immediately furnish duplicate parts without cost to you.



The above illustration shows our X-L-ALL block machine with mould box open, pallet in place.

We offer 10 days' trial which will give you a sufficient opportunity to thoroughly test the machine, and if you do not find it in every way satisfactory you can return the machine at our expense and we will refund the amount paid, together with any freight charges which you have paid.

Capacity of THE X-L-ALL MACHINES. One man can easily turn out 125 blocks in a day; two men can turn out 250 to 300 blocks in a day.

With X-L-ALL concrete mixers the capacity can be greatly increased. With a brick mould you can turn out from 2,000 to 2,500 perfect brick.

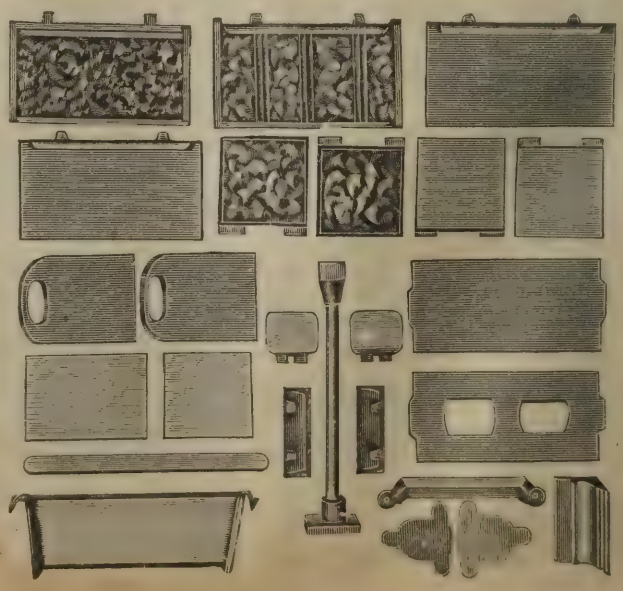
The construction of the X-L-ALL machine. We wish to call your attention to the fact that this machine is constructed on the face-down principle with vertical cores. The face-down principle is acknowledged by all concrete engineers to be the only method possible to produce a perfect block. This principle permits making the face of the block with a mixture of 2 to 1, and a backing of 5 to 1. It reduces the cost of the block very materially without injuring the durability of the block. The face being exposed to the weather, and made of a richer mixture than can be made by any other style of machine, makes the block practically water-proof without water-proofing, and by this method you can make a block with any style of face much cheaper and clearer than can possibly be produced in any other manner. Also the face of the block can be colored or water-proofed at a very small cost by the use of THE X-L-ALL FACE-DOWN MACHINE.

We show herewith an illustration of THE X-L-ALL CONCRETE BLOCK MACHINE for making blocks one size only, either 8x8x16, 8x10x16 or 8x12x16 inches. The brick mould is a separate part, and is not included in the price of the outfit furnished with the block machine. You will understand that the finished size of the concrete blocks in either of the three sizes is ½-inch scant all around, allowing for mortar joints, making block full size when laid in the wall.

Our concrete block outfits are more complete than furnished with any other similar type of machine. With this outfit you can make a full block, one-half and one-quarter blocks, return corner blocks, also round corner window blocks and joist blocks in both Rock and Plain Face design. We give you your choice of any 2 styles of faces that you desire, but unless otherwise specified we always furnish THE X-L-ALL MACHINE with a plain and rock face.

We show herewith illustration of parts furnished with each X-L-ALL CONCRETE BLOCK MACHINE, and the following is a complete list of parts furnished with each machine:

1 Plain Face Plate for making whole blocks,
1 Plain Face Plate for making one-half and one-quarter blocks,
1 Rock Face for making whole blocks,
1 Rock Face for making one-half and one-quarter blocks,
1 Left Hand Rock End Door,
1 Left Hand Plain End Door,
1 Right Hand Core End Door,
1 Left Hand Core End Door,
2 Core Plugs,
2 Pallet Plugs,
2 Dividing Plates for ½ and ¼ size block,
1 Graduating Bar,
1 Steel Plate for inside corners,
1 Steel Plate for making Gable Blocks,
2 Joist Block Attachments,
1 Steel Carrier,
1 Steel Striker,
1 Double End Tamper,
1 Sample Wood Pallet,
1 Sample Iron Pallet.



PALLETS. THE X-L-ALL MACHINE is designed for the use of either iron or wood pallets. We would recommend iron pallets; they cost but very little, if any, more than the wood pallets properly made. More block are lost by the use of poorly made wood pallets than the value represented by a full set of iron pallets. Iron Pallets do not warp, and are practically indestructible. We furnish 1 each sample iron and wood pallet with each X-L-ALL BLOCK MACHINE.

THE X-L-ALL CONCRETE BLOCK MACHINE and parts are shipped direct rom factory, located near Chicago.

PRICES ON X-L-ALL CONCRETE BLOCK MACHINES

No. 4-A-1475. X-L-ALL CONCRETE BLOCK MACHINE complete for making 8x8x16 inch blocks. Shipping weight, 450 pounds. Price..... **$36.40**

No. 4-A-1476. X-L-ALL CONCRETE BLOCK MACHINE complete for making 8x10x16 inch blocks. Shipping weight, 480 pounds. Price..... **$41.25**

No. 4-A-1477. X-L-ALL CONCRETE BLOCK MACHINE complete for making 8x12x16 inch blocks. Shipping weight, 575 pounds. Price..... **$45.75**

Form 9109.

EXTRAORDINARY LOW PRICES

ON LUMBER AND BUILDING MATERIAL

FOR IMMEDIATE SHIPMENT

IN WRITING BE SURE AND MENTION FORM 9109 AND THE LOT No. YOU ARE INTERESTED IN.

On account of our increasing lumber business, we are compelled to remodel our lumber yard and add additional ground for storage purposes and also build more extensive sheds and warehouses to properly protect our increasing stock. **We are also adding additional railroad switch tracks** in order to give our customers the very best possible service and enable us to make prompt delivery of all orders.

In order to make the above improvements, it is necessary to move large quantities of lumber. Therefore, in order to do this rapidly, **we are offering the following stock of lumber to our customers at Prices, that are so low that in the majority of items they are less than the cost of manufacture.**

We will accept orders for all of any one item, or any part of any one item, to be shipped in carload lots or with carload shipments. **No orders will be accepted for shipment in less than carload lots.**

All prices are Free On Board Cars Chicago. On account of the limited quantity and the extreme low prices we are naming, the stock will not last indefinitely, therefore, we are compelled to offer the material subject to prior sales.

Get your orders in at once. Some other customer may want the same stock that you do. The material will be sold out quickly at these prices and the rule **"first come, first served"** will govern.

If you cannot make up a carload yourself, get your neighbors to join you. Send us a list of what you want and we will name you a delivered price or give you a guaranteed freight rate.

All material is new, dry, clean stock, manufactured and graded according to the rules of the Manufacturer's Associations and is guaranteed to be strictly as represented.

Crating Strips and Boxing Lumber

Furring strips and shingle lath.

Lot 500.	47,000 feet, 1x1, 6 to 20 ft. White Pine strips, surfaced one side and bundled, price, per 100 lineal feet	$ 0.18
Lot 501.	56,000 feet, 1x2, 10 to 20 ft. White Pine strips, surfaced and bundled, price, per 100 lineal feet	.27
Lot 502.	14,000 feet, 2x2, 8 to 20 ft. Yellow Pine strips, surfaced one side, price, per 100 lineal feet	.50
Lot 503.	32,000 feet, $\frac{3}{8}$x3, O. G. Battens Yellow Pine, lengths 8 to 20 ft., 85% clear suitable for crating, price, per 100 lineal feet	.35
Lot 504.	65,000 feet, $\frac{1}{2}$x3, Yellow Pine strips, surfaced two sides, practically clear stock, price, per 100 lineal feet	.35
Lot 505.	21,000 feet $\frac{3}{8}$x4, and $\frac{1}{2}$x4, No. 3 and better Yellow Pine beaded ceiling Bright stock, droppings from running higher grades. Will make excellent crating, price, per 1,000 feet	9.50

CHICAGO HOUSE WRECKING CO., 35th and Iron Sts., CHICAGO

Crating Strips and Boxing Lumber--Continued.

Lot 506. **37,000 feet,** 1x4, 6 to 20 foot, No. 3 white pine strips, surfaced two sides to ¾-inch. Price, per 1,000 feet. **14.50**

Resawed to ⅜-inch crating for $1.00 additional.

Lot 507. **17,500 feet,** No. 3 white pine boards, random widths and lengths, surfaced two sides, price per 1,000 feet. **18.00**

Resawed to ⅜-inch crating for $1.00 additional.

Lot 508. **15,500 feet,** Rough full inch-thick, No. 3 white pine boards, Random lengths and widths, price per 1,000 feet. **18.00**

Resawed to ½-inch crating $1.00 additional.

Lot 509. **15,000 feet,** No. 1 white pine boards, rough full inch-thick, slightly off grade on account of some wormholed effects, otherwise No. 1 stock, random lengths and widths, price per 1,000 feet. **20.00**

Resawed to ½-inch crating for $1.00 additional per 1,000 feet.

Sheathing, Boxing or House Lining.

IMPORTANT NOTICE:—For square edged sheathing or lining, any of above crating stock can be used.

Lot 510. **17,400 feet,** No. 3 Yellow Pine Boards, random widths and lengths, surfaced two sides, price per 1,000 feet. **16.00**

Lot 511. **12,800 feet,** No. 1 and No. 2 Mixed ¾x6 sheathing, resawed from two inch piece stuff, lengths 10 and 12 feet, price per 1,000 feet **16.50**

Lot 512. **11,000 feet,** No. 2 Sheathing, yellow pine, resawed from two-inch piece stuff, 6 to 12 inches wide, random lengths, price per 1,000 feet. **16.00**

Lot 513. **8,700 feet,** 1x6, 10 to 20 foot, No. 3 yellow pine dressed and matched flooring or sheathing, price per 1,000 feet **16.00**

Lot 514. **6,500 feet,** 1x8, 10 to 20 foot, No. 3 yellow pine shiplap, price per 1,000 feet. **16.00**

Lot 515. **7,300 feet,** 1x6, 10 to 16 foot, No. 3 white pine flooring, dressed and matched, price per 1,000 feet. **17.50**

Lot 516. **5,600 feet,** 1x8, 10 to 20 foot, No. 3 white pine shiplap, price per 1,000 feet. **18.50**

Beveled Siding--Weather Boarding--V Siding--Lap Siding

Lot 517. **8,500 feet,** ½x6, Standard lengths, C grade, Beveled red cedar siding, price per 1,000 feet. **13.00**

Lot 518. **14,850 feet,** ½x4, Standard lengths, No. 1 White Pine Beveled Siding, price per 1,000 feet **14.00**

Lot 519. **11,080 feet,** ½x4, Standard Lengths, No. 1 Spruce, Beveled Siding, price per 1,000 feet **13.75**

Lot 520. **9,400 feet,** ½x4, Standard Lengths, B and Better Select Red Cedar Beveled Siding, price per 1,000 feet. **18.50**

Lot 521. **10,708 feet,** ½x4 Standard Lengths, Clear Oregon Soft Spruce Beveled Siding, price per 1,000 feet. **21.50**

Lot 522. **13,900 feet,** ½x4, Standard Lengths, Clear Arkansas Soft Pine Beveled Siding, price per 1,000 feet. **18.00**

Lot 523. **16,050 feet,** ½x6, Standard Lengths, Clear Arkansas Soft Pine, Beveled siding, price per 1,00 feet. **20.00**

Drop Siding--Shiplap

Novelty Siding, Patent Siding or German Siding.

Lot 524. **7,165 feet,** 1x6, 10 to 20 foot, No. 2 Arkansas Soft Pine Drop Siding, kiln dried, bright and clean stock, extra good quality, 65% clear, price per 1,000 feet..... **17.00**

Lot 525. **8,300 feet,** 1x4, 10 to 20 foot, No. 1 and Better Select White Spruce, worked to any desired pattern, price per 1,000 feet. **21.00**

Lot 526. **12,400 feet,** 1x6 or 1x8, 10 to 20 foot, No. 1 and Better Select White Spruce Drop Siding, price per 1,000 feet. **30.00**

Lot 527. **17,800 feet,** 1x6, 10 to 20 foot, C. Select & Better Cypress Drop Siding, extra fine quality, price to 1,000 feet. **32.00**

Lot 528. **14,460 feet,** 1x8, 10 to 20 foot, No. 1 and Better Oregon Fir Shiplap, Extra Fine quality, price per 1,000 feet. **30.00**

Flooring

Lot 529. **10,060 feet,** No. 2 quarter sawed Hard pine flooring, dressed and matched, 1x3, lengths 10 to 20 feet, price per 1,000 feet. 16.50

Lot 530. **4,935 feet,** No. 1, 1x4, Short flooring, Kiln dried, lengths 6, 8, and 10 foot, mostly all 8 to 10 foot, price per 1,000 feet. 20.00

Lot 531. **12,400 feet,** 1x4, 10 to 20 foot lengths, No. 2 Hard Pine Flooring, dressed and matched, price per 1,000 feet. 17.00

Lot 532. **8,600 feet,** 1x4, 10 to 20 foot lengths, No. 1 Yellow Pine Flooring, dressed and matched, price per 1,000 feet. 22.00

Lot 533. **5,400 feet,** 1x4, 10 to 20 foot lengths, clear Yellow pine Flooring, dressed and matched, price per 1,000 feet. 24.50

Lot 534. **16,100 feet,** 1x6, 10 to 20 foot, No. 2 Yellow Pine, dressed and matched flooring, price per 1,000 feet. 18.50

Lot 535. **6,450 feet,** 1x4, 10 to 20 feet, No. 1 and Better Spruce Flooring, dressed and matched, price per 1,000 feet. 20.00

Lot 536. **7,765 feet,** 1x6, 10 to 20 foot, No. 1 and Better Spruce Flooring, dressed and matched, price per 1,000 feet. 30.00

Lot 537. **3,600 feet,** 1x3, 10 to 20 foot, B and Better Cypress Flooring, dressed and matched, price per 1,000 feet. 32.00

Lot 538. **19,000 feet,** 1x4, 6 and 8 foot, B and Better White Pine, dressed and matched porch flooring. 23.00

Lot 539. **12,600 feet,** 1x6, 6 and 8 foot, B and Better White Pine Porch Flooring, dressed and matched, price per 1,000 feet. 25.00

Lot 540. **11,000 feet,** 1¼x4, 6 and 8 foot, B and Better White Pine Porch Flooring, price per 1,000 feet. 25.00

Lot 541. **3,900 feet,** 1x4, 9 and 10 foot, Clear Fir Porch Flooring, dressed and matched, price per 1,000 feet. 32.00

Lot 542. **16,000 feet,** ¼x2¼ face Select and Better Oak Flooring kiln dried, tongue and grooved, and matched and bored for blind nailing, price per 1,000 feet. 26.00

Barn and Factory Flooring

Lot 543. **24,000 feet,** No. 1 Yellow Pine or Arkansas soft Pine, 2x6, 10 and 12 foot, dressed and matched factory flooring, price per 1,000 feet. 17.75

Lot 544. **12,000 feet,** No. 1 Minnesota Soft Pine, 2x6, 10 to 18 foot, dressed and matched flooring, price per 1,000 feet. 21.00

Lot 545. **5,000 feet,** 2x6 and 2x8, 6 and 8 foot, C and Better dressed and matched White Pine Flooring, price per 1,000 feet. 20.00

Lot 546. **3,500 feet,** 2x6, 10 to 20 foot, Rough full 2-inch thick Minnesota Soft Pine Planking, price per 1,000 feet. 20.00

Lot 547. **4,750 feet,** 2x10, 10 to 16 foot White Pine Planking, dressed one side and one edge, price per 1,000 feet 21.00

Ceiling, Wainscoting and Partition

Lot 548. **28,000 feet,** No. 2, ⅝x4 lengths 10 to 20 foot, No. 2 Yellow Pine Ceiling, dressed and matched and beaded, clean, bright stock, extra good quality, price per 1,000 feet. 14.50

Lot 549. **10,400 feet,** No. 2, ½x4, lengths 10 to 20 foot, Yellow Pine Ceiling, dressed and matched and beaded, good stock, price per 1,000 feet. 13.00

Lot 550. **8,250 feet,** No. 1, ⅝x4, lengths, 10 to 20 foot, Yellow Pine Ceiling, dressed and matched, practically all clear, price per 1,000 feet. 19.50

Lot 551. **7,600 feet,** ¾x4, 6 and 8 foot, B and better, dressed and matched and beaded White Pine Ceiling, price per 1,000 feet. 23.00

Lot 552. **6,480 feet,** ¾x4, 9 and 10 foot, Clear Fir Ceiling, price per 1,000 feet. 32.00

Lot 553. **5,500 feet,** ¾x4, 6 and 8 foot, C and better White Pine Partition, dressed and matched and beaded two sides, price per 1,000 feet. 25.00

Lot 554. **10,000 feet,** ¾x4, 10 to 20 foot, No. 1 and better Yellow Pine Partition, price per 1,000 feet. 20.00

Lot 555. **11,100 feet,** 1x4, 10 to 16 foot, No. 1 and better Spruce Partition, dressed and matched and beaded two sides, price per 1,000 feet. 22.00

Barn Boards and Fencing

Lot 556. Arkansas Soft Yellow Pine Barn Boards, surfaced, dry, high grade stock.
7,600 feet, 1x12, 12 foot, price per 1,000 feet. 20.00
8,050 feet, 1x12, 18 foot, price per 1,000 feet. 20.00
12,000 feet, 1x12, 20 foot, price per 1,000 feet. 20.00

Lot 557. **10,600 feet,** 1x8, 10 to 16 foot, No. 1 and better Spruce Boards, surfaced two sides, any specified length furnished, price per 1,000 feet. 30.00

Lot 558. **8,500 feet,** 1x10, 10 to 16 foot, No. 1 and better Spruce Boards, surfaced two sides, any specified length furnished, price per 1,000 feet. 30.00

Lot 559. No. 1 White Pine Barn Boards, surfaced, extra fine quality.
4,800 feet, 1x12, 12 foot, price per 1,000 feet. 33.00
5,680 feet, 1x12, 14 foot, price per 1,000 feet. 32.00
5,700 feet, 1x12, 16 foot, price per 1,000 feet. 33.00
8,600 feet, 1x12, 18 foot, price per 1,000 feet. 35.00
9,650 feet, 1x12, 20 foot, price per 1,000 feet. 35.00

Lot 560. **14,200 feet,** No. 1, 1x6, 10 to 16 foot, Cypress Fencing, rough, price per 1,000 feet. 26.00

Lot 561. **7,600 feet,** No. 2, White Pine, 1x6, 10 to 16 foot, rough or surfaced, price per 1,000 feet. 20.00

Lot 562. **9,900 feet,** Common Yellow Pine Fencing, 1x6, 10 to 12 foot, dressed, any specified length furnished, price per 1,000 feet. 19.50

Studding, Scantling and Joists

Lot 563. Yellow Pine Stock, surfaced one side and one edge, straight and sound and guaranteed to work full length without waste.
5,400 feet, 2x4, 4 foot. $10.00
6,000 feet, 2x4, 6 foot. 14.00
2,800 feet, 2x4, 14 foot. 18.50
3,200 feet, 2x4, 24 foot. 21.00
8,500 feet, 2x6, 10 foot. 16.00
4,800 feet, 2x6, 12 foot. 16.00
10,000 feet, 2x6, 20 foot. 16.50
14,000 feet, 2x12, 14 foot. 19.00

Lot 564. **45,000 feet,** Minnesota Soft Pine, 2-inch piece stuff, including 2x4, 2x6, 2x8, 2x10, lengths 8 to 16 foot, surfaced and sized, any size or length furnished, price, per 1,000 feet. 21.00

Lot 565. **2,700 feet,** 2x6, 8 to 18 foot, No. 1 Norway Pine, rough, any specified lengths, price per 1,000 feet. 21.00

Lot 566. **7,400 feet,** Short Piece Stuff, 4 to 8 foot, 2x4, 2x6, 2x8, 2x10, 2x12, surfaced and sized and furnished in random lengths only, price per 1,000 feet. 10.00

Lath

Lot 567. **8,100 feet,** Byrkits Patent Sheathing Lath, best grade manufactured, Standard lengths, price per 1,000 feet. $15.00

Lot 568. **60,000, No. 2,** 32-inch Soft Pine Lath, price per 1,000 pcs. 1.25

Lot 569. **40,000, No. 1,** 32-inch White Pine Lath, price per 1,000 pcs. 1.75

Lot 570. **15,000, No. 3.,** 4 foot Mixed Pine and Hemlock Lath, price per 1,000 pcs. 2.85

Lot 571. **25,000, No. 1,** 4 foot Arkansas Soft Pine, kiln dried lath, price per 1,000 pcs. 3.50

Shingles

Lot 572. 150M Standard Star, A Star Red Cedar Shingles, price per 1,000. ..... 2.25

Lot 573. 194M Common Star, A Star Red Cedar Shingles, price per 1,000. ..... 2.35

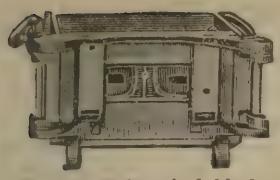
Lot 574. 74M thick butt, 16 inch White Cedar Shingles, Good wide widths, best grade manufactured, price per 1,000. ..... 3.25

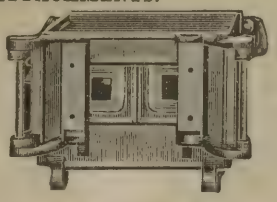
Posts

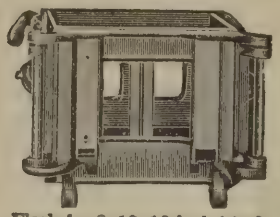
Lot 575. **781,** 3 inch top, 7 foot, Round Cedar Posts, price each. $0.08½

Lot 576. **1,293,** 4 inch top, 7 foot, Round Cedar Posts, price each. ..... .11

X-L-ALL FLASK ATTACHMENTS.


Flask for 8x8x16 inch block.


Flask for 8x10x16 inch block.


Flask for 8x12x16 inch block.

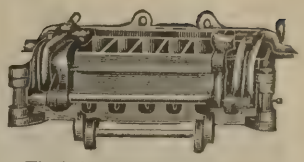
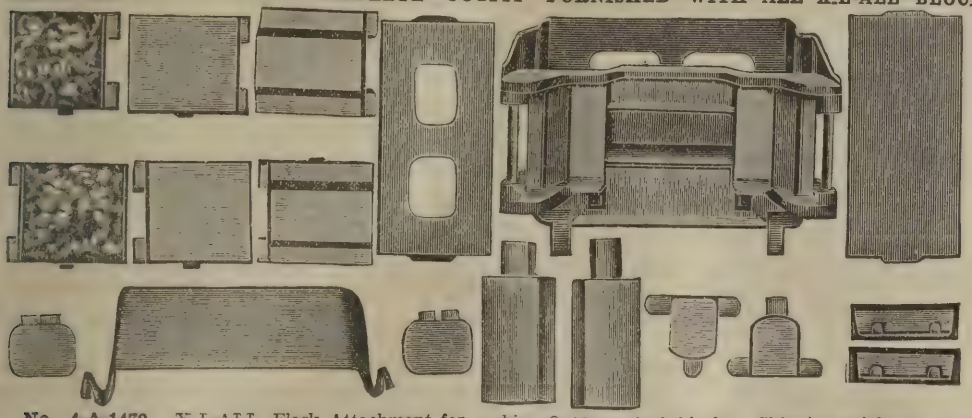

Flask for making brick, size 2⅜x3⅞x8 inches.

ILLUSTRATION SHOWING COMPLETE OUTFIT FURNISHED WITH ALL X-L-ALL BLOCK MACHINE FLASK ATTACHMENTS.



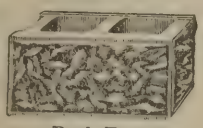
On X-L-ALL BLOCK MACHINES all flasks are interchangeable. You can order one machine complete, and if you wish to make brick or blocks of other sizes you can do so by ordering extra flasks. In ordering extra flasks, you will understand that you can only make one size block or brick at one time. If you have sufficient work, we recommend ordering complete outfit for each size block you wish to make. In purchasing your outfit do not overlook the flask attachment for making brick. With this attachment you can make 8 plain face brick at one operation by the face-down principle. This flask is furnished complete with 1 striker, 1 double end tamper, 1 smoothing trowel, 1 sample wooden pallet.

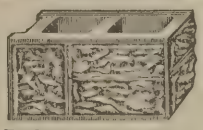
PRICES OF X-L-ALL FLASK ATTACHMENTS.

No. 4-A-1478. X-L-ALL Flask Attachment for making 8x8x16 inch blocks. Shipping Weight, 180 pounds. Price. **$16.75**

No. 4-A-1479. X-L-ALL Flask Attachment for making 8x10x16 inch blocks. Shipping weight, 210 pounds. Price..... **20.25**
No. 4-A-1480. X-L-ALL Flask Attachment for making 8x12x16 inch blocks. Shipping weight, 250 pounds. Price..... **24.75**
No. 4-A-1481. X-L-ALL Flask Attachment for making brick, size 2⅜x3⅞x8 inches. Shipping weight, 140 pounds. Price..... **36.75**

Plain Face.

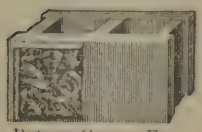

Rock Face.


Broken Ashler Face-A.

Broken Ashler Face-B.

Water-Table Face.

Panel Face.

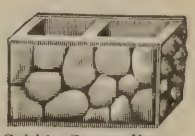

Return Corner Face.

NOTE: ASHLER FACE PLATES CANNOT BE FURNISHED IN FRACTIONAL SIZES.

The illustrations shown above are reproductions of concrete blocks made on the "KONKRETE KING" and X-L-ALL BLOCK MACHINES. We are prepared to furnish face plates for whole and fractional size blocks, end doors and bay window attachments to match in any of the above designs.

KONKRETE KING FACE PLATES AND PARTS ARE NOT INTERCHANGEABLE WITH THE X-L-ALL MACHINES. Face Plates for X-L-ALL BLOCK MACHINES are interchangeable and will fit any size X-L-ALL FLASK.

No. 4-A-1482. Face Plate for Whole Block. Shipping weight, 28 pounds. Price..... **$1.65**
No. 4-A-1483. Face Plate for one-half and two-quarter blocks. Shipping weight, 25 pounds. Price.. **1.69**


Cobble Stone Face.

Extras For X-L-Al Face Down Block Machine.

	For 8x8x16 inch Machine.			For 8x10x16 inch Machine.			For 8x12x16 inch Machine.		
	No.	Wgt., lbs.	Price	No.	Wgt., lbs.	Price	No.	Wgt., lbs.	Price
Return End Doors, right or left	4-A-1484	8	$1.25	4-A-1489	11	$1.42	4-A-1494	17	$1.50
Bay Window Attachments	4-A-1485	75	5.25	4-A-1490	80	5.47	4-A-1495	80	5.25
Circle Block Attachments	4-A-1486	75	5.60	4-A-1491	80	5.67	4-A-1496	85	5.80
4 inch Course Block Attachments, complete	4-A-1487	65	6.95	4-A-1492	150	10.95	4-A-1497	170	11.50
Water Table Outfit	4-A-1488	100	7.50	4-A-1493	110	7.95	4-A-1498	120	8.45
Iron Pallets	4-A-1111	8	.25	4-A-1493½	10	.32	4-A-1498½	12	.38

SPECIAL NOTE.—When placing order for Face Plates, Bay Window and 4 inch Block Attachment, do not fail to mention the design desired. When ordering Circle Block Attachments, be sure and mention design wanted. Also state whether 8, 10 or 12 foot radius. When ordering End Doors, mention whether right or left hand, and design wanted. All Face Plates used in connection with THE X-L-ALL BLOCK MACHINES are interchangeable with the different sizes. Face Plates and parts of THE X-L-ALL MACHINE are not interchangeable with the KONKRETE KING MACHINE.

EXTRAS FOR X-L-ALL BRICK FLASK.

As we have stated, THE X-L-ALL Brick Flask Mould is equipped for making plain face brick. We can furnish Face and End Plates to make Rock, Plain or Panel Face brick. In ordering be sure and state which style Face Plate you desire.

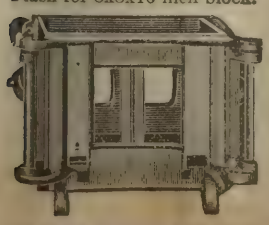
No. 4-A-1499. Face Plates. Each..... **$1.75** **No. 4-A-1500.** End Plates. Each..... **1.00**

FOR X-L-ALL COMBINATION FACE-DOWN BLOCK AND BRICK MACHINE OUTFIT

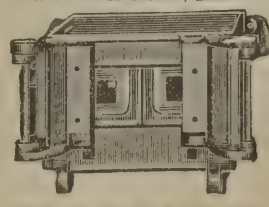
$110.00 FOR THE GREATEST COMBINATION EVER OFFERED.

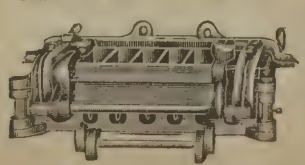
This is the greatest combination ever offered, and should appeal strongly to the contractor or any one contemplating going into the concrete block and brick manufacture. With this outfit you can make 8x8x16, 8x10x16 and 8x12x16 inch blocks, whole, half and quarter sizes, return corner blocks, gable blocks in Plain and Rock Face, also Plain Face Brick.

Flask for 8x8x16 inch block.


Flask for 8x12x16 inch block.

Shipped direct from factory, near Chicago


Flask for 8x10x16 inch block.


Flask for making brick, size 2⅜x3⅞x8 inches.

ILLUSTRATIONS SHOWING STANDARD AND MOULD BOXES FURNISHED WITH ALL X-L-ALL COMBINATION FACE-DOWN BLOCK AND BRICK MACHINE OUTFITS.

We furnish with this combination, 1 standard, 3 flask moulds for making 8x8x16, 8x10x16 and 8x12x16 inch concrete blocks. Also flask mould for making 8 plain face bricks, size 2⅜x3⅞x8 inches. All flasks fit on the standard shown. With this outfit you can make whole blocks, half and quarter blocks, gable blocks, return corner blocks, round corner window blocks and joist blocks in three different sizes in both Rock and Plain Face design, also Plain Face Brick. We give you your choice of any 2 face designs shown, but unless otherwise specified, we always furnish the plain and rock face.

The Cores are polished and are drawn vertically by a compound lever operating on anti-friction rollers and the arrangement is so simple that a boy can withdraw the cores without injury to the block. There are no bolts to remove to change from one style face plate or end doors to another, as they are provided with an improved self-locking hinge.

No. 4-A-1501. Shipping weight, 1,050 pounds. Price..... **$110.00**

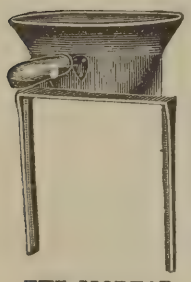
PERFECTION KONKRETE BLOCK LAYING TOOLS.

With the use of these tools it is possible to make a perfect and uniform mortared joint without any previous experience; in fact a skilled mechanic unless using these tools could not make a joint equally as good. They hold and measure each and every mortared joint, the same being absolutely uniform throughout the entire building. They fill the keyed and champered ends of the block, making every joint of the building water proof.

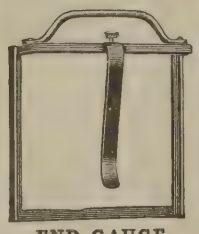
With the use of these tools, it is impossible to lay a wall out of plumb which is due to the fact that they gauge the exact distance of the joints. They hold the mortar back from the face of the block $\frac{1}{16}$ of an inch to receive an even amount of pointing material; they also hold the mortar back on the other side of the wall to receive the plaster.

ALL LINES OF THE BUILDING ARE MADE PERFECT WITH THE USE OF THESE TOOLS and at the same time assures the mechanic that is working on the wall that when he sets a block on the mortared bed, prepared with a Perfection tool, he is not obliged to raise or remove it to add mortar, nor is it necessary to use the mallet to make the block conform with the corresponding block in the wall.

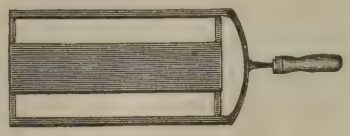
With the use of these tools you can also water table, sills and sill caps the same as regular building block is laid.



THE MORTAR FUNNEL.



END GAUGE.



BASE GAUGE.

THE MORTAR FUNNEL is used to fill the keyed ends of the block, filling with soft mortar which becomes as solid as the block itself after it is thoroughly set. This gives additional strength and makes the joints absolutely water proof.

END GAUGE is the block layer's guide and prevents any possible error of misplacing or getting wall out of line, and at the same time setting block level and plumb, leaving a perpendicular mortared joint to correspond with the mortar bed and also for receiving the pointing material.

BASE GAUGE. The Base or Mortar Gauge is used for making a perfect and uniform mortar bed $\frac{1}{2}$ of an inch in thickness, and at the same time holding the mortar back from the face and back of the block $\frac{1}{16}$ of an inch to receive an even amount of pointing material. It also keeps the horizontal joints perfectly straight and every block perfectly level. The base gauge also prevents the wavey effect seen in all cement block walls, which can only be prevented by the use of Perfection Tools. The base gauge also serves to keep the face of the block free from mortar while the wall is being laid, thereby saving the additional expense in cleaning the face of the block after wall is completed.

Shipped direct from factory, Central Indiana.

No. 4-A-1505. Shipping weight, 25 pounds. Price, per set. **$9.95**

X-L-ALL Concrete Batch Mixers.

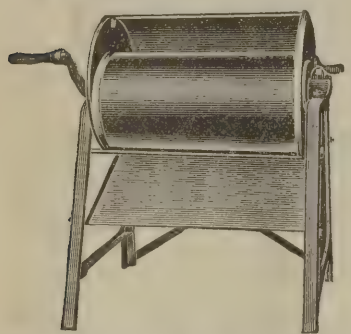


Illustration showing Size Nos. 1 and 2 X-L-All Concrete Batch Mixers.

Illustration Showing Size No. 3 X-L-All Concrete Batch Mixers.

Will mix a batch of sand or cement thoroughly and in less time than any other mixer. Material is turned over twice in one revolution of the drum. With the aid of the breaking knives, material is first thrown from one end of the drum and then to the other end. THE X-L-ALL Mixer has no cover to remove before loading the drum, therefore, there is no cover to remove to discharge contents of the drum. It having no covers to remove, and requiring only 6 turns of the drum to thoroughly mix contents, we claim that it is the most rapid mixer manufactured. The system of applying water in the X-L-ALL Batch Mixer is extremely simple. The water is sprinkled into the material as it revolves, thus dampening the material just as it requires it. This prevents the material from getting too wet which is a very essential feature in block or brick making. The water pipe is placed directly over the cylinder or drum, in which there are holes drilled throughout the full length on one side and can be easily connected to city water or to a pump or barrel. Each machine is provided with a shut-off so water can be turned off or on as the operator desires. Owing to the construction, the operator can see the material mix as the drum revolves, thus avoiding stopping the machine to ascertain if it is properly mixing or whether the mixture has sufficient water.

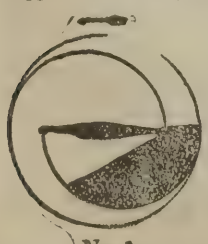
CONSTRUCTION OF THE X-L-ALL-MIXER.

The cylinder ends are made of the best quality gray iron casting. The wings of the cylinder are sheet steel and can be removed by taking out two bolts, thus releasing the cylinder end or breaking knives. The breaking knives can also be removed if necessary.

The X-L-ALL Mixer will mix a batch of sand or cement, known as dry mixture, for block or brick work in less than one minute or a cement mixture for foundation and sidewalk work in less than half a minute. Dumping from the wheelbarrow or loading into the mixer requires about 10 seconds; discharging, about 10 seconds. When shoveled into the mixer from pile the time required depends upon how fast you shovel and how many men you have. The X-L-All Mixer will mix the material as fast as you can get the material to it, therefore, the capacity depends upon the working ability of the workmen.

The Numbers 1 and 2 Mixers are designed to meet the requirements of the cement block and brick manufacturer who makes from 300 to 400 blocks per day. The No. 1 Mixer is provided with only one crank, while the No. 2 Mixer has 2 cranks. A boy 14 years old can turn the No. 1 Mixer all day long and it is only play for a man to operate the No. 2 Mixer. The 2 cranks are more for a matter of convenience than anything else. The material is shoveled in at the back and discharged at the bottom on to a shoot made of steel.

The No. 3 Mixer is designed for foundation or basement work. This mixer can be operated by one man, but the capacity is greater in proportion if operated by two men. Generally the builder or block maker has two men working around his machine; the mixer will mix up the material in two batches to keep one man making blocks and the other carrying away at the same time. The No. 3 mixer is fitted with 2 cranks and has a chain drive for each end of the drum. It is back geared, 3 to 1. It will take 3 turns of the crank to 1 turn of the drum. THE X-L-ALL Concrete Batch Mixers are shipped from factory near Chicago.



No. 1.

No. 2.

No. 3

Fig. No. 1. Loading.

This illustration shows the position of the drum of the machine while loading the material into it. Note how evenly the machine is balanced while the load is being put into the drum or cylinder. The Mixer is quickly loaded and discharged.

Fig. No. 2. Mixing.

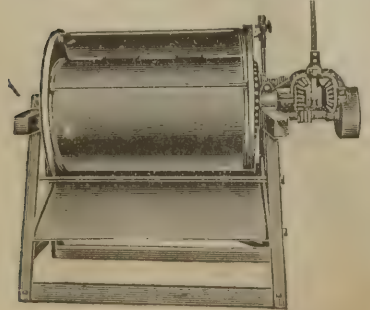
This illustration shows the contents of the drum while being mixed. Note the material from the outside of one of the wings falls to the center of the machine, where it comes in contact with deflecting bars before passing into other wing, thus breaking and mixing the material as the machine continues to revolve. The material on the bottom of one wing is transposed and at the end of the revolution it rests on the top of the opposite wing. This operation is repeated as the cylinder revolves. Could anything mix sand and cement better.

Fig. No. 3. Discharging.

This illustration shows position of the drum or cylinder when discharging the load. Note that every particle of concrete within the cylinder is discharged by simply reversing the motion of the drum by a half turn. No covers or sides to remove in loading or discharging material.

No. 4-A-1502.

Size No.	Size of Cylinder	Gauge of Steel	Capacity per batch	Cu. Yds. per hr.	Turns of crank	Shipping Weight	Price
1	24x32	No. 14	1 cu. ft.	1½	12	350 lbs.	$32.50
2	32x32	No. 14	2 cu. ft.	2½	12	425 lbs.	45.00
3	32x42	No. 12	3 cu. ft.	4	36	600 lbs.	57.50



X-L-ALL POWER BATCH MIXERS.

This mixer is fitted with reversible gear in order to turn the drum first in one direction then in another, one to use in mixing material and the other to discharge the contents. The drum is controlled by hand levers and a jaw clutch so as to start and stop the drum without stopping the engine. When the drum is loaded you throw the lever to turn the drum forward. After it has made from 6 to 8 turns, or as many as you wish, throw the lever in the opposite direction. The action will reverse the drum and it will only make one complete revolution backward and discharge the contents and at the same time place the drum in proper position for reloading. This makes our Power Mixer nearly automatic. Capacity of the X-L-ALL Mixer—50 to 60 yards per day. If you will arrange a platform on the back so that you can wheel direct from the sand or stone pile and dump the material into the mixer, it will hold a wheel barrow of sand or gravel with the necessary amount of cement and do fast work. Shipped from factory near Chicago.

No. 4-A-1503. Size of cylinder, 32x42 inches; gauge of steel, 12; capacity per batch, 3 cu. ft.; cu. yds., per hour, 3½ to 4½. Shipping weight, 850 lbs. Price. **$85.00**

Metal Roofing, Siding and Ceiling

THE BEST AND MOST LASTING COVERING MANUFACTURED

IN offering you Steel and Iron Covering for Roofing, Siding and Ceiling purposes, we do so with absolute confidence that **no better covering exists.** The ordinary plain painted sheet iron has been **in use for over a century and by every comparison has proven itself the best for all general purposes,** where full protection combined with durability and economy are sought. There is no question about its superiority over any other roof covering. **It excels all other coverings and is practically without fault.** There are many instances where iron roofs in first class state of preservation now exist, that **were laid from twenty to fifty years ago** and outside of painting them once every three to five years have been practically without repair. Of course very much depends on the thickness of the iron and whether the roofing is made of painted or galvanized material. More about this will be said in the following pages.

THE particular points of advantage by the use of metal roofing are, **first, price; second, endurance; third, simplicity of laying.** As to price, it is **cheaper than shingles** and practically on an equal basis with felt or tarred roofing. A great many fires originate on a shingle roof; this one special point is reason enough to show its vast superiority. It is proven by instances on record that **it will last as long as fifty years.** The so called Ready Roofing, now being introduced to the public, has never had an opportunity to prove its value or lasting qualities. As compared to Ready Roofing, whether rubber surfaced or felt, cost considered, **Metal Roofing will outlast it five to one.** Patent Prepared or Composition Roofing, cracks and curls with age. Tarred Roofings rot and spoil. Most Ready Roofings soften in the warm air and sunshine. They stick to your feet when walked upon. Slate Roofing requires a steep pitch and a heavy, expensive structure to support it and will weigh almost seven times as much as the Steel Roofing. It breaks in freezing or thawing and from heat of near by fires. It costs twice as much and is exceedingly expensive to keep in repair. **Steel roofing is fire and lightning proof.** Its use is strongly advocated by underwriters. A building covered with iron and steel, struck by lightning, has never been known to be damaged. The reason for this is the bolt striking the metal scatters the electricity and this leaves no damaging effect whatever. This protection is certainly worth price of painting the roofing from time to time. That is practically all the expense that exists after the roof is laid. **Farmers who require a good roof on their barn ought to appreciate this.** Take it as a rule, their barns are full of grain and hay at certain seasons of the year and cannot always be covered by insurance.

IT **is easy to lay,** requiring no previous experience. Except in the case of the Standing Seam Roofing, no tools except an ordinary hatchet or hammer are required. On the Standing Seam a special set of tools is needed, which we furnish at $3.00 per set, but this price is refunded when the tools are returned to us.

OUR QUOTATIONS DO NOT INCLUDE LAP.

Prices named on the various grades of Metal Covering, do not include lap. It is impossible for us to compute the amount necessary for lap, as the conditions vary. Sometimes it is wise to give your roofing a whole lot of lap, especially where you are anxious to get a very fine roof. We should safely say that 10% ought to be counted as the amount necessary for lap. **Be sure you add that much in figuring the amount needed for your roof.**

A square of roofing consists of 100 square feet. That does not mean that the sheet is 100 feet in length, but it means that when we say we will furnish a square of roofing, **we will furnish enough sheets to make a total of 100 square feet, not including lap.** To figure out the amount of material needed to cover a given space, **find out the total number of square feet in space to cover and add to it 10%.** As to laying this material, full directions will be found on a following page.

This Metal Covering is used for **roofing, siding** and **ceiling.** Also for lining bins and floor covering to make a vermin proof building or compartment.

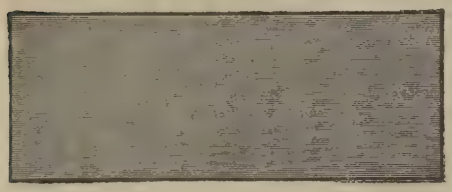
We furnish the following different styles of sheets:

Flat Sheets, Corrugated Sheets, "V" Crimped Sheets, Imitation Pressed Brick Siding, Standing Seam Sheets, Beaded Siding and Ceiling.

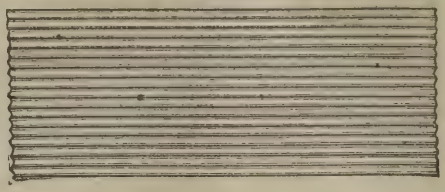
Illustrations showing these various styles appear on the following page.

We recommend the use of the Corrugated Sheet wherever possible. Though the same thickness **it is a tougher and a stronger sheet** than any of the other styles on account of its corrugations giving it added rigidity.

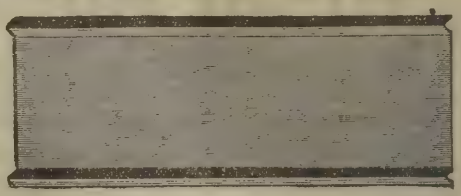
Metal Covering Comes in Following Styles



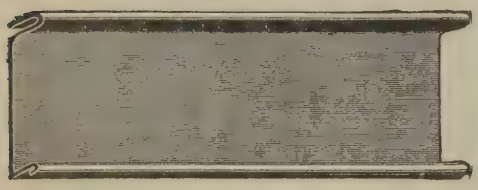
Flat Sheets



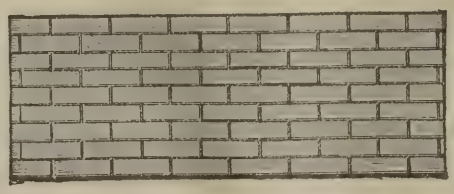
Corrugated Sheets



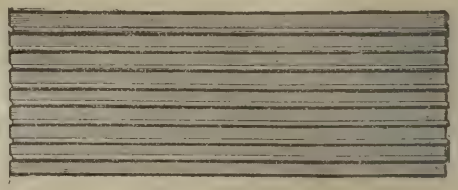
"V" Crimped Sheets



Pressed Standing Seam Sheets



Pressed Steel Siding



Beaded Siding or Ceiling

Metal Covering Comes in Two Different Kinds of Steel

Steel Sheets, Painted

The standard of Metal Roofing is painted steel sheets. In other words the sheets are plain black. For all ordinary purposes painted roofing will be generally found good enough. We furnish our painted roofing with one light coat on it. This of course is not sufficient, and after it is on the roof it will require an additional good coating.

Steel Sheets, Galvanized

These sheets are the same as the black but have an added galvanized coating that makes them lasting and permanent. Our galvanized, rust proof iron is made of the very best grade of specially manufactured metal sheets. The galvanizing process protects these sheets from rust for all time. A thorough coat of noncorrosive metal, consisting of tin, lead and zinc, so called spelter, becomes a part of each sheet through the special dipping process employed. This gives the heaviest possible coat of galvanizing necessary for any covering purpose. Galvanized sheets have proven the very best covering known. Positively will not taint your rain water. A permanent lasting covering. Costs more than the painted but is well worth the difference.

As to Sheathing

We recommend that Metal Roofing be laid on sheathing boards put close together. Boards need not necessarily be planed, but should be of equal thickness. While it can be laid over shingles without removing them, it will make a much better job if laid direct on sheathing boards.

As to Painting

We recommend that all Metal Roofing and Covering be painted after it is laid. We can furnish you at a low price a first-class coating that will do the work. After a period of a year, another coat should be applied and at regular intervals of say three or four years as found necessary. Keep your Metal Covering properly painted and you have got something that will last you indefinitely.

As to Felting

We advise that a layer of Roofing Felt always be laid under Metal Roofing where gas or steam is used in the building or where there is heat next to the roof. It will prevent sweating in cold weather, at the same time preserving the paint on the other side of the roof and serve as a non-conductor to heat and cold. We can furnish Felt Covering at very low prices. It is quoted elsewhere in this catalog.

Special Freight Prepaid Notice

As a special inducement to get your order at once, we make the following proposition which will be in force until further notice:

On all new Metal Roofing, Siding and Ceiling, quoted on page 97, we will prepay the freight in full to your railroad shipping point, provided the destination is East of the Colorado state line and provided it is not in Oklahoma or Texas. This means that we will positively pay all the necessary carrying charges and the prices as shown on the above pages prevail in full. Now don't confuse this freight prepaid offer with any other part of our catalog. It does not say that we prepay the charges on any other goods. Has nothing to do with it. It refers strictly to the Roofing, Siding and Ceiling mentioned above. Neither does it mean that we prepay the charges on any of the used or second-hand roofing quoted elsewhere in this catalog. It is only on the new material that the proposition is in force. All other quotations in this catalog, unless we state to the contrary, are strictly free on board cars, Chicago, and not freight prepaid.

We will prepay the freight to Oklahoma or Texas at 15c per square advance over our printed prices shown in this catalog. We will prepay the freight to all points West of Colorado at 50c per square advance. Bear in mind that this proposition of freight prepaid, refers only to new metal covering.

METAL ROOFING, SIDING AND CEILING

The numbers referred to have nothing to do with the thickness or gauge of iron, but are used for convenience so that we can correctly fill your order and know just what you are ordering.

Grade No. 10. A light semi-hardened, brand new, perfect, high grade material which comes in sheets 6 feet or 8 feet long. We can, however, furnish lengths 2, 3, 4 and 5 feet. The sheets when flat are 24 inches wide. In "V" crimped or corrugated the sheets are 22 inches wide. This light weight material cannot be furnished in Standing Seam. Price per square as follows:

Flat, unpainted.....$1.60
Corrugated or "V" Crimped, unpainted..... 1.85
Flat, painted..... 1.75
Corrugated or "V" Crimped, painted..... 1.95

Grade No. 11. The description of this material is exactly the same as the No. 10 grade, quoted above, except the sheets are much heavier. We can furnish this in all styles. Price per square as follows: Flat, unpainted.....$1.85
Corrugated, "V" Crimped or Standing Seam, unpainted..... 2.10
Flat, painted..... 1.95
Corrugated, "V" Crimped or Standing Seam, painted..... 2.20

Grade No. 12. A heavy black sheet, full 27 gauge. The material is brand new. The sheets range from 2 feet to 8 feet in length, and the widths are, when flat, 24 and 26 inches, and in all other styles 24 inches. Price per square as follows:
Flat, unpainted.....$2.20
Corrugated, "V" Crimped or Standing Seam, unpainted..... 2.45
Flat, painted..... 2.30
Corrugated, "V" Crimped or Standing Seam, painted..... 2.55

Grade No. 18. Galvanized, unpainted covering. Here is a metal which for lasting qualities is unequaled. It is heavily galvanized and shipped unpainted. Will stand the toughest conditions better than any other kind. It is especially good near the seashore, and will not be affected by salt water. You can give it a coat after it is on your roof, although it is not necessary. It is light weight, but the galvanizing on this material is just as heavy as it is on the heavier sheets. We have no hesitancy in recommending it for all general Roofing, Ceiling and Siding Purposes. The sheets when flat are 26 inches wide and 6 feet long. When corrugated or "V" crimped they are 24 inches wide and 6 feet long. We do not furnish it in Standing Seam. Price per square as follows: Flat.....$3.00
Corrugated or "V" Crimped..... 3.25

Grade No. 16. A heavy galvanized covering, made of the same material as the No. 18 grade, but very much heavier. We can furnish sheets 26 or 24 inches wide when flat, and 26 or 24 inches wide when Corrugated, "V" Crimped or Standing Seam. Price per square as follows: Flat.....$3.50
Corrugated, "V" Crimped or Standing Seam..... 3.75

All the above corrugations are 1½ inches wide. We can, however, furnish grades No. 11, 12 and 16 in 2½ inches wide corrugations without additional charge.

PRESSED STEEL BRICK SIDING

Made of sheet metal, painted and galvanized. It can be applied by anyone; lays perfectly smooth, and after applying has all the appearance of pressed brick. It costs no more than wood siding and just about a fifth of the expense of laying brick. It is durable, cheap, and a protection against fire. As a siding it has no equal. The sheets are usually 24 inches wide by 68 inches in length. We can furnish it in the grades described above at the following prices:

PRICES PER SQUARE

No. 10, unpainted	$1.85	No. 12, unpainted	2.45
No. 10, painted	1.95	No. 12, painted	2.55
No. 11, unpainted	2.10	No. 18, galvanized	3.25
No. 11, painted	2.20	No. 16, galvanized	3.75

BEADED SIDING AND CEILING

Same as illustration on previous page. It is adapted for all general ceiling purposes. Can be used in stores, kitchens, factories, public halls, and, in fact, it is an all around Ceiling and Siding. The beads are small corrugations ⅝ inch wide by ⅜ inch deep and 3 inches from center to center. It does not require any special tools to apply it. The sheets should be lapped 1 or 2 inches at the end and about one crimp at the sides. You can apply them either horizontally or perpendicularly to the boards, studding or joist, or you can put them on over old plaster. Sheets are 24 inches wide and usually 6 feet in length. We can furnish it in the grades described above at the following prices:

No. 10, unpainted, per square.....$1.85
No. 10, painted..... 1.95
No. 11, unpainted..... 2.10
No. 11, painted..... 2.20
No. 12, unpainted..... 2.45
No. 12, painted..... 2.55
No. 18, galvanized..... 3.25
No. 16, galvanized..... 3.75

The above prices are included in our special freight prepaid notice on previous page.

EXTRA

All prices for covering are made without nails, paint, "V" sticks or tin cleats. We charge extra for these items, as follows:
Nails, per square.....$0.05
"V" sticks for use in applying "V" crimped roofing, per sqare .10
Tin cleats for use in applying standard seam roofing, per sq. .10
Dry Paint, either red or black, for quantity sufficient to cover one square..... .05
Ready Mixed Roofing Paint, in buckets of 5 or 10 gallons, red or black. Price per gallon in quantities of 5 gallons or more..... .44
Lead Washers, for quantity sufficient to lay one square..... .10

USED ROOFING AND SIDING MATERIAL

Prices are all f. o. b. cars, Chicago. We usually have in stock quantities of used Metal Covering which we sell at very low prices. We guarantee descriptions to be accurate. Quotation is made, however, subject to stock on hand. In sending us your order, be sure to use the various lot numbers shown.

Lot No. 1. Ranges from 20 to 22 gauge, widths from 24 to 30 inches, lengths from 5 to 8 feet. Painted black two sides; perfect condition, free from nail holes; 2½-inch corrugations. Price per square.....$2.60

Lot No. 3. Comes in 24 to 27 gauge, widths 22 to 28 inches, lengths 3 to 8 feet. Has occasional nail holes; painted black two sides; 2½-inch corrugations. Price per square.....$1.75

Lot No. 3½. Same specification as No. 3, but free from nail holes. Price per square.....$1.90

Lot No. 4. Galvanized, gauges from 24 to 27, widths 20 to 28 inches, lengths 3 to 8 feet; 2½-inch corrugations. Price per square.....$2.80

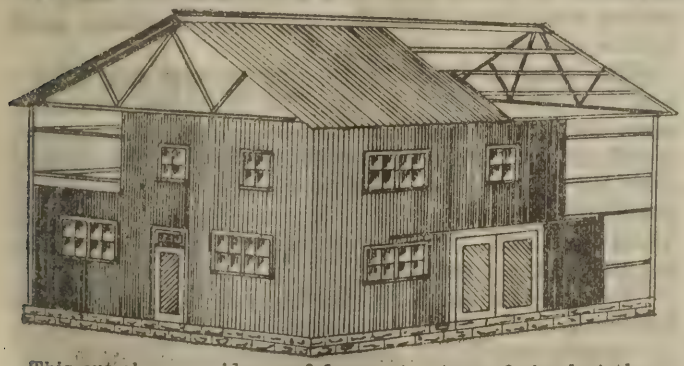
Lot No. 4½. Same specification as No. 4, except with occasional nail holes. Price per square.....$2.50

Lot No. 6. An extra fine lot of used sheets, 24 gauge, painted black two sides, lengths all 5½ feet, widths all 2 feet, one size sheets. Price per square.....$2.00

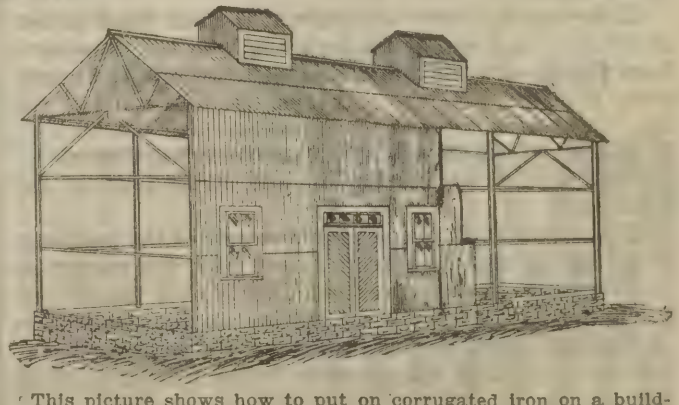
Lot No. 17. 28 to 29 gauges, sheets from about 16 to 22 inches wide, lengths from 20 to 30 inches; 1½-inch or 2-inch corrugations; in good condition. Price per square.....$1.50

Note: We cannot furnish any of these grades of used Roofing Material in specified sheets or gauges, but only as described. Where sheets have a range in size or in thickness, they will only be furnished in that way.

CORRUGATED ROOFING



This cut shows a ridge roof frame structure of simplest shape in process of being covered with corrugated iron, and also shows how to put on the ridge cap, more fully described elsewhere in this catalog. Wherever the iron is applied direct to studding or rafters which run in the same direction the corrugations do, the distance between the centers of the studding or rafters must be exactly the width of the sheet. The illustration shows the way to put this on the cheapest kind of a building, and we do not recommend to put it on in this way. It is always best to apply Roofing or Siding direct to sheathing. See instruction for putting this on elsewhere.



This picture shows how to put on corrugated iron on a building made of angle iron or other steel structural material. As a cheap, durable fireproof covering, Corrugated Iron is unquestionably the best. It is extensively used everywhere for all kinds of buildings, porticos, etc.

In ordering material, give us, whenever possible, a sketch of your building, and we will send sheets as near as we can to your requirements, so that there will be very little cutting or waste.

SAMPLES OF ANY GRADE WILL BE SENT FREE ON APPLICATION.

GENERAL DIRECTIONS FOR APPLYING METAL COVERING

HOW TO LAY THE CORRUGATED IRON ROOFING

Begin to lay the sheets from the eaves, first covering the lower left hand corner projecting one corrugation over the side and from 2 to 4 inches over the eaves. Hammer the projecting side corrugation down against the edge of the sheathing, nailing it in place. Nail across the sheet near the eaves through the tops and alternate corrugations.

Place second sheet to the right of the first, lap over one corrugation of the first sheet and with the same amount of eave projections. Nail the sheets where they lap and directly perpendicular through tops of the corrugation and about 8 inches apart. Nail also left to right across the entire length of the roof, then begin at the right to lay the second row in the same manner as first and so continue until the entire roofing is laid.

When nailing across the lower ends of the sheets in the second row, put the nails so they will pass through both the first and second row, etc.

HOW TO LAY THE CORRUGATED SIDING

Begin at the left hand corner in applying the corrugated from base to cornice, giving the sheets from 1 to 2-inch lap at the end and one corrugation lap at the side. Nail side lap every 6 inches and end lap in every other corrugation with 2½-inch corrugated, and in every third corrugation with 1¼-inch corrugated, driving the nails through the top of the corrugation. Care should be taken that the iron is kept a few inches from the ground. It is usually best to have the base-board 6 to 12 inches wide partially covered with plain iron for the bottom.

HOW TO LAY THE "V" CRIMPED ROOFING

This material may be laid over sheathing, shingles, etc., or laid on directly to the rafters. Our Nos. 10 and 11 grades are 22 inches from center to center. It can be used on any roof having a pitch of more than 2 inches to the foot. The ends of the sheets can either be lapped from 1 to 3 inches or put together with lock joint. To make the lock joint, take a pair of tinner's snips and cut in ⅝-inch near the crimp, and on each end of the sheet, turn one end under and one end over, and when placed together on the roof, put the joint down closer.

In laying the material, begin at the left hand corner of the eave and end of the building, and lay the sheets from the eave to the ridge, and nail through the crimp every 8 inches. At the end laps, use four nails to the lap.

FOR PUTTING ON BRICK SIDING OVER SHEATHING

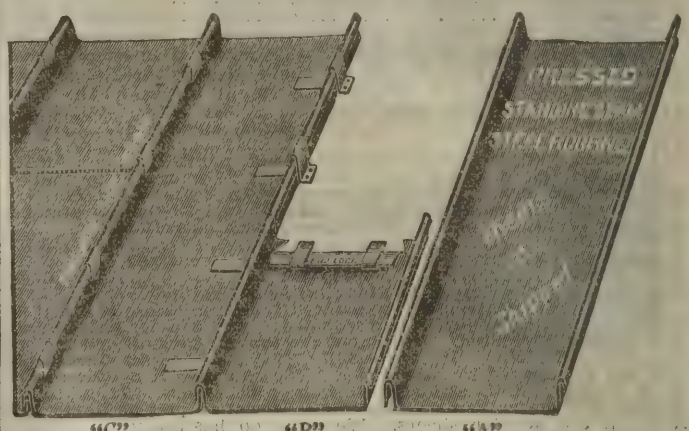
Take a level and chalk line and strike level of the building.

Place a sheet of siding at one corner of the building, allowing the end to extend 2 feet past the corner so that the cross grooves are immediately over the corner, the lower edge of the sheet resting on the chalk line. Nail the sheet fast to the wall through the grooves sufficiently to hold it fast and to bring it down solid all the way along. Begin at the middle of the sheet to nail and work toward ends and sides, placing nails two or three bricks apart. Never nail through the brick.

Bend the projecting 2 feet around the corner (if it projects) with the hands or with a piece of board, using a mallet slightly to bring down any uneven places.

Lay around the building until you meet the commencement. Place the first sheet of the second tier over the first so as to break joints perfectly as in brick work, leaving the half grooves at the bottom of the sheet lap over the first and fit closely in the half groove at the top of the first sheet.

STANDING SEAM ROOFING



"C" "B" "A"

"A" represents sheets as shipped. "B" explains method of laying and "C" shows finished seam.

Snip and then turn end locks with jointer by bending one end of sheet up and the other down. Commence laying at right hand corner and eave of building. Flatten right hand cap of first course and lay left hand cap to a chalk line. Let the bottom sheet project over eave and end of building 1 inch or more. Bend down projecting portion of sheet and nail to the end and eave of building, or if there are fire walls turn sheet up 4 to 6 inches, nail securely and counter-flash. Use two cleats on ends and one every 12 or 14 inches on sides. Continue laying the sheets until upper part of roof is reached. If a comb roof, allow 1 inch on one side and 2 inches on the opposite side to form a standing seam along the ridge.

Start next course (with the piece, if any, which was cut from the last sheet laid at comb) with flanges of sheets overlapping the first course, press down, turn the ends of cleats over, and then press the seam together with tongs; this finishes seam. Continue until roof is covered.

The comb is made by turning up one side 1 inch and the other side 2 inches, first flattening standing seam for 6 or 8 inches back from comb. Anchor the 1-inch side with cleats, and then turn the 2-inch side over the 1-inch, fold the cleat back over the top and press together with tongs. This makes standing seam along the comb. Hips are made in the same way after cutting to the right angle.

To lay Standing Seam Roofing you will require the following tools at prices noted:

Seamer, price	$1.50
Snips, price	1.00
Jointer, price	.50
Total	$3.00

We will furnish these tools and give you the privilege of returning same after you are through using them, provided you will pay freight or express charges on them, but all orders sent us for these tools must include the price. We will return the amount after we receive them back.

Ornamental Metal Ceilings and Walls

The economy of steel ceilings is only one of its many advantages over wood and plaster; among others which are apparent are:

IT IS FIRE AND DUST PROOF.

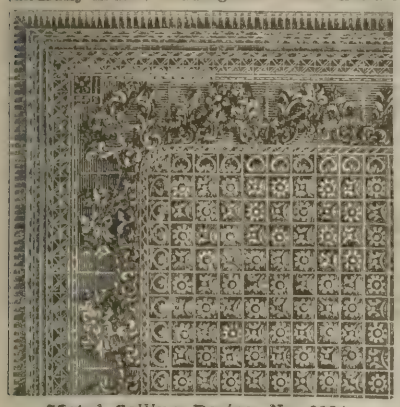
The patent beaded lap joints used on all our metal ceilings and sidings make it absolutely dust proof. The use of either helps to prevent danger of fire. This is one great advantage in Theatres, Lodge Rooms, Halls, Churches, etc. Where these qualities are demanded.

IT ELIMINATES ALL DANGER OF FALLING PLASTER.

In applying Steel Ceiling wood strips are first nailed to the joists, then the ceiling attached to the strips, thus the plaster cannot fall.

A FRESH COAT OF PAINT AND A LITTLE TINTING CHANGES THE WHOLE APPEARANCE OF A ROOM.

No other ceiling can be so completely changed by a coat of paint as can ornamental Metal Ceiling. The figures pressed into the ceiling will naturally make a shading and this makes a common coat of paint look like the work of a decorator. Then if a little gilt or bronze tinting is applied to raised parts, it makes the change complete and in a very short time the saving in decorating expense will pay for the ceiling.



Metal Ceiling Design No. 8231.

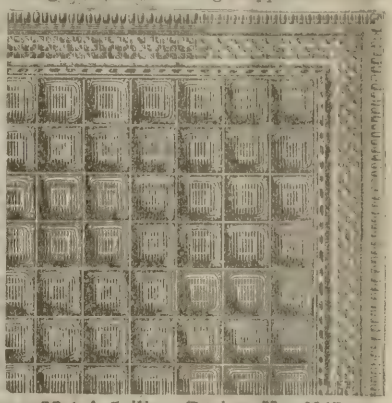
IT ELIMINATES WHILE PLASTER HOLDS MUCH OF THE DAMPNESS IN A ROOM.

This one feature alone makes metal ceiling invaluable for public buildings especially those heated only now and then. The use of the material will prove conclusively that a room in which it is used is more quickly and easily heated than one in which wood and plaster alone are used.

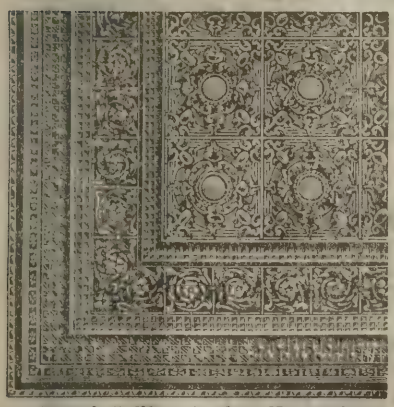
IT IS COOL IN SUMMER AND WARM IN WINTER.

These facts in connection with its ornamental qualities have made Metal Ceiling very popular.

We show here only a few of our popular designs. If you are interested in this material, we would be pleased to have you send us a diagram of your room showing any offsets or irregularities, as it is necessary to know this in order to figure borders, miters, etc.



Metal Ceiling Design No. 8047.

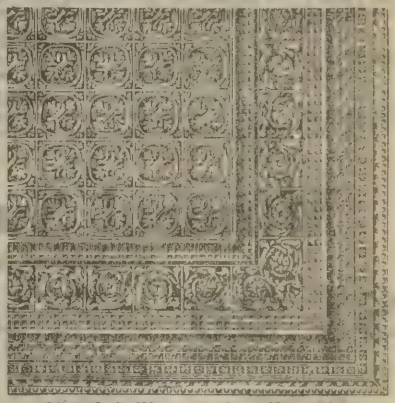


Metal Ceiling Design No. 8270.

OUR PRICES RANGE FROM $2.75 TO $4.25 PER SQUARE.

Ornamental Metal Wall Design No. 1157.

SEND US DIAGRAM OF YOUR ROOM FOR NET DELIVERED PRICE



Metal Ceiling Design No. 8265.

Ornamental Metal Ceiling

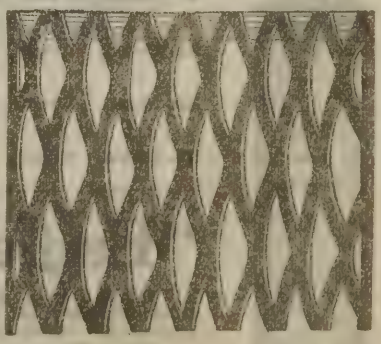
This is a very attractive pattern and is easily put on; comes in one size sheets only. Size: width, 24 inches; length, 96 inches; made with dustproof leaded lap joints, which makes a neat, workmanlike job and can be applied by any one. No special tools required. The use of this ceiling will greatly improve the appearance of your store room and enable you to rent it to better advantage. We furnish the ceiling painted with one coat red paint. You can finish it in any color desired. If you desire a border strip, we can furnish a 6-inch strip of the same pattern to break the ceiling and wall joint, which makes a very much better appearing job. Border is not furnished nor included in price quoted in the ceiling, but is charged for extra. (Shipped direct from factory in Central Ohio.)

No. 8045. Price per 100 square feet..... $2.35

No. 8046. 6-inch. Border Strip. Price per running foot..... .05

Expanded Metal Lath

For several years past fireproof building material has been more generally used than ever before. Metal lath is being largely used in place of wood lath. The expansion and contractions caused by moisture is entirely overcome. This practically eliminates cracking of plaster. For use in public buildings, also in halls, stairways and more exposed places, in private homes, it is unsurpassed on account of its fire-proof qualities. Comes in bundles of 15 sheets or 20 square yards. Prices are based on direct shipment from factory in Central Ohio.



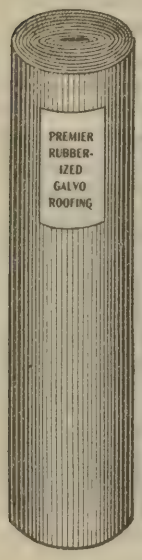
		Plain	Galvanized
No. 1112.	27 gauge	11½c per sq. yd.	21½c
No. 1113.	26 "	13c " "	23c
No. 1114.	25 "	14c " "	24c
No. 1115.	24 "	15½c " "	25½c

For painted add ½c per sq. yd.

Rubberized Galvo Roofing

The Best "Ready" Roofing Manufactured. Fire-Proof and Water-Proof. Easy to Lay. Can be Put on Over Old Shingles. Does not Require Coating.

Our prices on Rubberized Galvo and Mineral Surface Asphalt Roofing are freight prepaid to any point within 500 miles of Chicago.



$1.00

per square
Complete with Nails, Caps and Cement

This roofing is of a very superior quality, manufactured from the best grade wool felt saturated with pure asphalt, and positively does not contain coal tar. It is unexcelled for wear, durability and economy. This roofing is pliable and tough and is not in any way affected by weather conditions. Can therefore be used in any climate. It is purchased by us direct from the manufacturers. Is a regular grade made by them with the exception that instead of a continuous piece as a roll of roofing ordinarily comes, it is put up two or three pieces to the roll. This does not affect the quality one bit, as the fact that it is in more than one piece certainly does not lessen its quality or make any difference in its appearance.

We guarantee there is no higher grade roofing made in this country than that we are offering. For confidential reasons we do not tell you the name of the manufacturers. This roofing is far superior to the cheap brands of ready roofing offered for sale.

RUBBERIZED GALVO ROOFING has a rubber surface which is slate color—tough leather-like material. It is made of a combination of wool felt and highest grade of natural asphalt. It is water proof, lightning proof and fire proof. Water runs off it like it does off a duck's back. It will not taint rain water. It makes buildings warmer in winter and cooler in summer. It is not affected by acids, alkalies or gases. It has a rubbery surface, and on this account we call it RUBBERIZED GALVO ROOFING.

It does not contain coal tar or anything that will deteriorate in the weather; in fact, it is composed only of the highest grade of natural asphalt and pure wool felt properly combined.

WE GUARANTEE THAT IT WILL GIVE LASTING SERVICE and it will wear as long as the building stands, providing you give it ordinary care. IT DOES NOT REQUIRE A COAT after it is on the roof. It toughens and hardens with age. About a year after laying we recommend that you give it a coat of mineral asphalt paint which will protect the roof and cause it to last for many years. When the surface shows signs of wear it can be very easily re-painted and made as good as new.

We furnish with each order nails, caps and cement, and where it is desired we will furnish large headed nails instead of the caps. Anyone with a hammer can lay this roofing. No special tools are required. **You can put it on over shingles** without removing same. It is scientifically manufactured to take care of the laws of contraction and expansion. It requires but little time to put it on your roof. Two men can easily lay 20 squares a day.

It is appropriate for any kind of a building, either factory, dwelling, barn, store, church, etc. It is also used as siding or lining, especially the lighter grades.

It is put up in one and two square rolls. The one square rolls contain 108 square feet and the two square rolls contain 216 square feet, sufficient to lay one and two squares respectively.

You can lay it from left to right or from eave to comb, whichever is easiest to apply. We recommend that it be put on opposite to the run of the sheathing.

ONE-PLY RUBBERIZED GALVO ROOFING.

No. 13-A-1. Adapted for out-houses and buildings for which an inexpensive covering is desired, weighs about 35 lbs. to the square. One-ply complete with trimmings. Price, per square..... **$1.00**

TWO-PLY RUBBERIZED GALVO ROOFING.

No. 13-A-2. For dwellings, factories, warehouses and, in fact, for all general roofing purposes, weighs about 45 lbs. to the square. Two-ply complete with trimmings. Price, per square..... **$1.40**

THREE-PLY RUBBERIZED GALVO ROOFING.

No. 13-A-3. For large buildings and unusually severe conditions. The best rubber surface roofing manufactured. Weighs, 55 lbs. to the square. Three-ply complete with trimmings. Price, per square..... **$1.75**

Mineral Surface Asphalt Roofing

Guaranteed to be the best Coat and Roofing Manufactured

$1.25

per square
Complete with Nails, Caps and Cement

This roofing is made of wool felt and pure asphalt. There is absolutely no coal tar in its composition. It is tough and pliable and is not susceptible to changes in weather. It can be used in any climate.

The Mineral Surface Asphalt Roofing has a heavy coat of crushed mineral, which adds very much to its fire proof qualities and making it unnecessary to coat. A surface of this kind will last for years.

The construction of this roofing is practically the same as Rubberized Galvo Roofing with the exception of the surface. Nothing but the best of materials enter into the manufacture of these goods. This is a regular grade of roofing. Instead of being put up in rolls of one continuous piece, it comes put up in two or three pieces to the roll. This does not in any way affect the quality, and the fact that it is in two or more pieces does not lessen its wearing qualities or make any difference whatever in the appearance.

When the surface requires it, it can easily be painted with our mineral asphalt paint which is a natural preservative and adds very much to the life of the roofing. In fact, if properly cared for it will last for years.

This roofing is put up in rolls containing 108 and 216 square feet, sufficient to lay one and two squares, respectively, and we recommend that it be laid in the same manner as Rubberized Galvo Roofing.

ONE-PLY MINERAL SURFACE ROOFING.

No. 13-A-4. Weight, per square, 60 lbs. Price, per square..... **$1.25**

TWO-PLY MINERAL SURFACE ROOFING.

No. 13-A-5. Weight, per square, 70 lbs. Price, per square..... **$1.30**

THREE-PLY MINERAL SURFACE ROOFING.

No. 13-A-6. Weight, per square, 80 lbs. Price, per square..... **$1.75**

"Eagle" Prepared Tarred Felt Roofing

This is a grade of roofing that has been the standard for years past but has become less used on account of the increased demand for **Asphalt Roofing.** Eagle Brand made of high grade wool felt saturated with distilled coal tar, and is without any question the highest grade, most practical and lowest priced tarred prepared roofing on the market.

This roofing is put up in rolls containing 108 square feet, sufficient to cover one square. While this is a very satisfactory roofing, we do not recommend it for a permanent, lasting job. Where a high grade roof is required, we recommend our Rubberized Galvo or Mineral Surface Asphalt roofing.

PRICES DO NOT INCLUDE NAILS, CAPS OR COATING.

No. 13-A-7. TWO-PLY, Weight, 45 lbs. Price, per roll..... **$0.60**
No. 13-A-8. THREE-PLY, Weight, 68 lbs. Price, per roll..... .87

SHEATHING PAPER AND FELT

RED ROSIN SIZED SHEATHING PAPER.

We guarantee the quality of our Red Rosin Sized Sheathing Paper to be absolutely the best. It is rosin sized by a special process and is vermin and damp proof. Put up in rolls 36 inches wide containing 500 square feet.

WEIGHT AND PRICE PER ROLL.

No. 13-A-10.
20 lbs.....$0.33
No. 13-A-11.
30 lbs.....$3.50
No. 13-A-12.
40 lbs.....$0.60

"PREMIER" WOOL DEADENING FELT.

This is made of the very finest selected grade of wool felt, soft and pliable. It is used to deaden sound between floors and walls. We recommend that it be used under every floor as it adds greatly to the warmth of the building. Weighs 1 lb. to the sq. yd. Put up in rolls 36 inches wide weighing from 50 to 75 lbs. per roll.

No. 13-A-19. Price per lb...$0.02½c

TARRED FELT.

Guaranteed to be made of the best grade of wool felt, thoroughly saturated with distilled tar and is vermin and damp proof. Warranted to unroll freely without sticking and is the toughest and most pliable tarred felt manufactured.

We offer it in two grades, Grade No. 1 being the heaviest. This is used as a sheathing paper for all general purposes and is also used between floors for deading purposes.

Grade No. 2 is of medium weight and makes an excellent sheathing and general purpose building paper.

Both grades are put up in rolls 32 inches wide weighing approximately 60 pounds each.

No. 13-A-13. Grade No. 1. No. of sq. ft. to the roll 250. Price per roll..... 90c

No. 13-A-14. Grade No 2. No. of sq. ft. to the roll 500. Price per roll..... 90c

TARRED STRAW BOARD SHEATHING

This is a very popular sheathing paper and is made of heavy straw board thoroughly saturated with distilled coal tar. It is put up in rolls 32 inches wide and weighs about 16 lbs. to the 100 sq. ft. Rolls weigh from 50 to 75 lbs

No. 13-A-18. Price per lb...$0.01½c

SLATER'S FELT.

This is the ideal sheathing paper and is also used largely under metal and slate roofs. It can be used in place of Red Rosin or any other of the sheathing papers we offer.

It is put in rolls 36 inches wide, each roll containing 500 sq. ft. Weight per roll approximately 35 pounds.

No. 13-A-15. Price per roll .. 75c

ASBESTOS ROLL MILL BOARD.

This is the same as mill board in sheets except that it is put up in rolls 36 inches wide. It is made a little softer than the sheets and can be used for the same purposes as the sheet mill board. It is more specially adapted to fireproofing ceilings over boilers or other surfaces that are in close contact with fire or excessive heat. It is also used for wrapping furnace or steam pipes. It comes in rolls weighing 50 lbs.

	Thickness Inches
No. 13-A-27	⅛
No. 13-A-28	1/16
No. 13-A-29	¼
No. 13-A-30	⅜

Price per lb.....$0.07c

"PREMIER" BLUE PLASTER BOARD.

We guarantee this to be the best grade of Plaster Board manufactured. It is a strong, tough paper used under clap boards for sheathing and on walls in place of plaster. When used for this purpose it is tacked to the studding and wall paper can be placed over it, making a very satisfactory body. It is put up in rolls 36 inches wide.

No. 13-A-16. Contains 250 sq. ft. Weight 30 lbs Price per roll..$0.70
No. 13-A-17. Contains 500 sq. ft. Weight 60 lbs. Price per roll..$1.40

ASBESTOS BUILDING FELT

This material is made of asbestos and is fire proof. Is used for linings of floors, partitions and for wrapping hot water pipes, etc. Put up in rolls 36 inches wide. Weighs approximately 10 lbs. to 100 sq. ft. Weight of roll 50 lbs.

No. 13-A-20. Price per roll....$2.10

ROOF COATINGS AND PAINTS

"PROTECTO" ASPHALT PAINT.

An unequalled preservative paint for roofs and exposed surfaces. After much investigation we are able to offer in our Protecto Paint what we believe is undoubtedly the best paint on the market for preserving metal and felt roofs, fences, tanks, agricultural implements, in fact all exposed surfaces from the ravages of rust and decay.

Protecto Paint is made of a high grade of asphalt combined by a special process with mineral oils. No coal tar, rosin or other cheap materials enter into its composition.

When applied to a metal surface, one gallon covers about 300 square feet giving a glossy black finish. It is not affected by the weather and it will not crack or peel. For use around factories it is unequalled on stacks, boilers, pipes and machinery.

It will not taint water and can be used to paint the inside and outside of cisterns to prevent seepage.

No. 13-A-31.	1	Gal. Can	$ 0.53
	3	" "	1.18
	5	" "	1.90
	10	" "	3.55
	25	" Bbl.	6.55
	50	" "	12.25

EAGLE BRAND COATING.

A black, protective coating manufactured by a special process from a refined pitch fluxed with mineral oil. One gallon covers about 100 square feet and dries in 24 hours. Eagle Brand is especially valuable for preserving felt roofs or surfaces exposed to water or dampness. It can be used with good result on any exposed surface and will keep your roof in good shape. We recommend its use in connection with prepared tarred felt roofing. It is not as durable as our Protecto Asphalt Paint which we guarantee to be the best preservative paint on the market.

	Size	Price Per Package
No. 13-A-32.	1 Gal.	$0.30
No. 13-A-33.	2 "	.55
No. 13-A-34.	5 "	.95
No. 13-A-35.	10 "	1.75
No. 13-A-36.	25 " (½ bbl)	2.90
No. 13-A-37.	50 " (1 bbl)	5.00

"PREMIER" MINERAL ASPHALT PAINT.

This is the only colored paint manufactured that contains an asphalt body and for this reason is an ideal roof coating. It is tough and elastic. The colors produce a fine effect and will harmonize with the shades used in your house paint. This is the only colored paint on the market that will give perfect satisfaction on felt, rubber and composition roofing. It will cover from 100 to 250 square feet per gallon.

Premier Mineral Asphalt Paint is entirely different from any other brand that is manufactured. It is made of the best grade of Trinidad Asphalt melted and specially treated and combined with pure kettle boiled linseed oil, can be used to advantage on any kind of surface and is not affected by contraction, expansion, acids, gases or alkali. When dry it forms a tough, elastic and impervious surface. It has a high gloss and is the most durable and best preservative paint on the market.

We recommend it for wood, metal or composition roofing surfaces. Guaranteed not to contain a trace of coal tar.

		50 gal. bbl. per gal.	25 gal. bbl. per gal.	5 gal. can per gal.	1 gal. can
No. 13-A-39.	Maroon	$0.52	$0.57	$0.62	$0.67
No. 13-A-40.	Green	.52	.57	.62	.67
No. 13-A-41.	Brown	.52	.57	.62	.67

Premier Refined Asphalt.

To meet the requirements of some of our customers we offer hard, refined asphalt which is preferred by many in place of tar.

This asphalt is 99% pure and melts at 208 degrees Fahrenheit. It can be used for re-coating gravel, metal or composition roofs, also for coating reservoirs and cisterns, and water-proofing the foundations of buildings. Compared with tar it has a much greater covering surface. One ton contains about 250 gallons as against 166 gallons to one ton of coal tar. For all water-proofing work, such as foundations, it requires about 30 pounds to the square, and for re-coating roofs about 40 pounds to the square.

When melted this asphalt can be easily applied at a temperature of about 375 to 400 degrees.

No. 13-A-49. Price per half barrel containing about 250 lbs. **$3.75**
Price per barrel containing about 400 lbs. **6.00**

COAL TAR ROOFING PITCH.

This is the very best grade of refined coal tar and is used largely as roofing pitch. We recommend it for tarred felt roofs. It can also be used to advantage in painting anything that is to be placed in the ground. In additon to being water proof it acts as a preservative. Sold in full barrels weighing 300 to 400 pounds

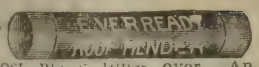
No. 13-A-38. Price per 100 lbs. **65c**

ASBESTOS SHEET MILL BOARD.

This board is made of asbestos. Is absolutely fire proof. Is used for packing joints in contact with fire, oils, etc., and is also used for linings under stoves and grates and for many other purposes where an absolutely fire proof material is required. Comes in sheets 40x40 inches. We sell full size sheets only.

	Thickness Inches	Approximate Weight lbs.	Price Per Sheet
No. 13-A-21.	1/16	4	**$0.30**
No. 13-A-22.	3/32	6	.95
No. 13-A-23.	1/8	7½	.56
No. 13-A-24.	1/16	11½	.85
No. 13-A-25.	¼	15	1.10
No. 13-A-26.	¼	22½	1.65

EVER READY ROOF MENDER.



Can be used in repairing leaks in any kind of roofing. Guaranteed to save its cost many times over. An elastic compound in stick form for mending leaks in all kinds of roof, tin, iron, felt, slate, etc., also for eaves troughs, iron or wood tanks and many other places where leaks occur. It is always ready for use and will not dry out. Made in black only.

No. 13-A-42. Price each..... **$0.20**
Price for six..... **1.10**

TIN ROOFING CAPS.

Used in connection with tarred felt roofing. Requires 1 lb. caps to the square.

No. 13-A-43. Price per lb..... **5c**

BARBED ROOFING NAILS.

No. 13-A-44. Plain barb length ..... 1″
Price per lb..... **$0.04**
Price per keg..... **3.75**

No. 13-A-45. Plain barb length..... 1½″
Price per lb..... **$0.04**
Price per keg..... **3.75**

No. 13-A-46. Galvanized barb length..... 1″
Price per lb..... **$0.05½**
Price per keg..... **5.25**

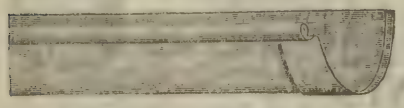
ROOFING BRUSHES.

The kind used by the roofing trade and the best brush made for the purpose.

No. 13-A-47. 2-Knot brush..... **$0.45**
No. 13-A-48. 3-Knot brush..... **.65**

Eave Troughs, Conductor Pipe, Gutters, Ridge Roll and Fittings

IMPROVED SLIP JOINT GALVANIZED EAVES TROUGH.



No. 4-A-36.

Can be put together without soldering. **When ordering be sure and state whether right or left hand is wanted.** Right hand will discharge water at the right hand end of trough. Left hand discharges water at left end of trough. Made of No. 28 gauge galvanized steel and furnished in 10 foot lengths only. We do not supply cut lengths. Slip joint is on one end of each length.

Size, inches	3½	4	4½	5	6
Price per Lgth	$0.27	$ .31	$ .35	$ .36	$ .42
Price per crate 250 feet	$6.25	7.25	8.00	8.50	10.00
Wght. per lgth. pounds	5½	6	6½	7½	8½

INSIDE AND OUTSIDE CORNER MITERS.

These corners are made with both inside and outside bead. Be sure to order according to number.

No. 4-A-48. Outside corner slip joint, right hand.

No. 4-A-49. Outside corner slip joint, left hand.

No. 4-A-50. Inside corner slip joint, right hand.

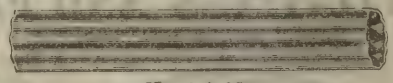
No. 4-A-51. Inside corner slip joint, left hand.

Size, inches	3½	4	4½	5	6
Price, each	$0.12	$ .13	$ .14	$ .14	$ .16

GALVANIZED CONDUCTOR PIPE, EAVES TROUGH, AND FITTINGS.

Made of No. 28 gauge, strictly first quality galvanized sheets and guaranteed to be the best on the market.

CONDUCTOR PIPE.



No. 4-A-35.

Galvanized Corrugated Conductor Pipe, made in 10 ft. lengths, without cross seams. Will not burst when full of ice. Furnished only in full lengths.

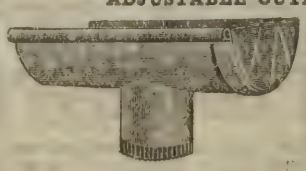
Size of Conductor to use with Eaves Trough.

Size of Eaves Trough, inches	3½	4	4½	5	6	7
Size of Conductor, inches	2	2	3	3	4	5

Galvanized Corrugated Conductor.

Size, inches	2	3	4	5
Price per length	$0.28	$ .33	$ .44	$. 54
Price per crate 250 ft.	$6.75	7.85	10.50	13.25

ADJUSTABLE OUTLET.

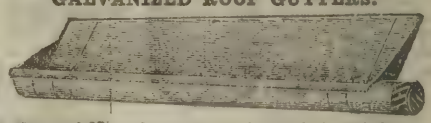


No. 4-A-38. These fittings consist of a short piece of about 6 inches of eaves trough, with slip joint on one end and drop outlet soldered on bottom close to the other end to connect to the conductor pipe. The end is closed with slip joint end cap, but is not included in prices quoted.

Adjustable outlet to fit eaves trough.

Size, inches	3½	4	4½	5	6
Fitted for Conductor. Size, inches	2	2	3	3	4
Price each	$0.09	$ .10	$ .11	$ .11	$ .13

GALVANIZED ROOF GUTTERS.

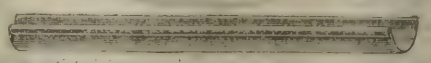


Made of No. 28 gauge steel, beaded and formed with patent slip joints. Anyone can put it on. Requires no soldering. Made in 10 ft. lengths in one piece. Illustration shows slip ends in position. Prices are for gutter only. Regular Corrugated Conductor is used in connection with this gutter. Sold only in full lengths.

No. 4-A-39. Size 14-inch girt, roll 3 inches high, flat surface 9 inches.
Price per length..... **$0.70**
Weight per length 10 lbs.

No. 4-A-40. Size 20-inch girt, roll 4 inches high, flat surface 13 inches.
Price per length..... **$1.00**
Weight per length 13 lbs

GALVANIZED LAP JOINT EAVES TROUGH.



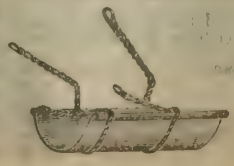
Made of No. 28 gauge steel in 10 foot lengths. Lap Joint Eaves Trough must be soldered at joints.

No. 4-A-37.

Size, inches	3½	4	4½	5	6
Price per Lgth	$0.25	$ .28	$ .32	$ .33	$ .40
Price per crate of 250 ft.	6.00	6.50	7.50	8.00	9.00

WIRE EAVES TROUGH HANGERS.

No. 4-A-56. Made of galvanized wire, and are the most simple and satisfactory hanger on the market.



Size inches	Price per doz.
3½	$0.11
4	.12
4½	.13
5	.14
6	.16

RAIN WATER CUT OFF. For Corrugated Conductor.

No. 4-A-57.

Size Inches	Price each
2	$0.14
3	.16
4	.21

ELBOWS AND SHOES.

45° No. 1 60° No. 2 90° No. 4.

Galvanized Corrugated.
When ordering always mention number.
No. 4-A-58. Conductor Elbow Angle No. 1.
No. 4-A-59. Conductor Elbow Angle No. 2.

No. 4-A-60. Conductor Elbow Angle No. 4.

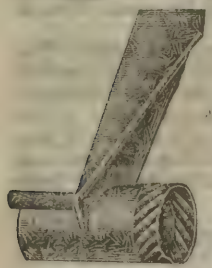
Size Inches	Price each	Price per doz.
2	$0.05½	$0.50
2½	.06	.65
3	.08	.93
4	.13	1.50

Shoe

CONDUCTOR SHOE

No. 4-A-61.

Size inches	Price each
2	$0.06
3	.07
4	.09
5	.13



GALVANIZED SPOUT ENDS.

To be used with Galvanized Roof Gutter.

No. 4-A-68. For 14 inch gutter. Price each $0.17

No. 4-A-69. For 20 inch gutter. Price each ..... .19

GALVANIZED SLIP ENDS.

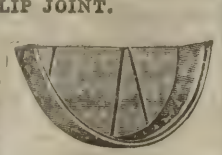
No. 4-A-54.
To be used with Galvanized Roof Gutter.
For 14 inch gutter. Price, each $0.15

No. 4-A-55. For 20 inch gutter. Price each. $0.17

END CAP SLIP JOINT.

No. 4-A-53. Made in one piece. Used to close ends of eaves trough and adjustable outlets.

Size Inches	Price each
3½	$0.05
4	.05
4½	.06
5	.06
6	.07

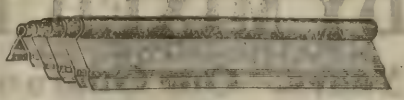


GALVANIZED RIDGE ROLL. With Corrugated Apron.

Made to be used on Corrugated Iron Roofs. Size of corrugations 1¼ and 2½ inches. In ordering be sure and state width of corrugation. Comes in 10 foot lengths. We do not furnish cut lengths.

Size of Roll Inches	Width of Apron Inches	Price Per Ft.
No. 4-A-44	2½	$0.06
No. 4-A-45	3½	.07

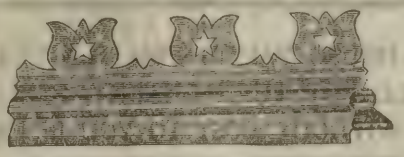
GALVANIZED RIDGE ROLL.



A neat water proof cap for the ridge of roofs. Is made in 10 foot lengths and can be used on shingles or any other kind of roofing. We do not furnish cut lengths.

Size of Roll Inches	Width of Apron Inches	Price Per ft.
No. 4-A-41	1½	$0.03½
No. 4-A-42	2	.04
No. 4-A-43	3	.05½

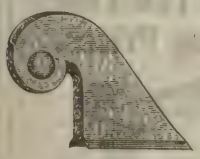
GALVANIZED ROOF CRESTING.



This Cresting we can furnish, either 8 or 10 inches high. The part over the roll is made of double thickness metal and is therefore very durable as well as ornamental. This Cresting comes in 5 and 10 foot lengths.

No. 4-A-46. Price per ft. 8 inches high... $0.07½
No. 4-A-47. Price per ft. 10 inches high... .10

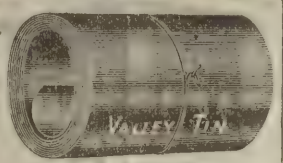
BLOCK FINIALS.



No. 4-A-52. Used in connection with roofing cresting, and can also be used with the 1½ and 2 inch Ridge Roll. Height is 10½ inches.
Price each..... $0.20

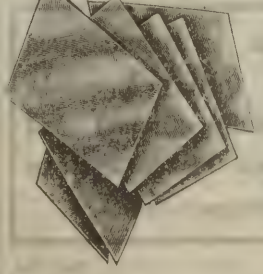
VALLEY TIN.

Galvanized Valley 14 inches wide made in 25 and 50 ft. rolls. We will furnish any length.



No. 4-A-62. 25 ft. roll. Price per roll $1.20
No. 4-A-63. 50 ft. roll. Price per roll $2.35
Price for cut lengths, per lineal foot .....

TIN SHINGLES AND FLASHINGS.



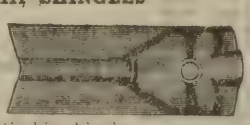
Made of roofing tin. Used for repairing old roofs and making tight joints around chimneys.

No. 4-A-64. Size 5x7 inches:
Price per 100. $0.80
Price each. .01

No. 4-A-65. Size 7x10 inches.
Price per 100. $1.50
Price each... .01½

METAL HIP SHINGLES

These shingles are much more ornamental than the wood hip caps and are easily laid. Size of shingle 4x9 inches.



No. 4-A-66. Painted tin hip shingles.
Price per 100..... $1.40
Price each ..... .02

No. 4-A-67. Galvanized hip shingles.
Price per 100..... $1.75
Price each..... .02½

CONDUCTOR FUNNEL.

No. 4-A-70. Conductor Funnels are used for running two Conductors into one outlet. Size given is size of lower sprout.

Size inches	2	3	4	5
Price each	$0.16	$ .20	$ .26	$. 34

CONDUCTOR STRAINERS.

No. 4-A-71. Galvanized Wire Conductor Strainers. To be placed in the outlet of Eaves Trough, preventing leaves, etc., from stopping up the Conductor. Size given indicates the size of the outlet Strainers will fit.

Size, inches	2	3	4	5
Price, each	$0.03	$ .04	$ .05	$ .07

CONTINUOUS TIN ROOFING.

Made of I. C. tin plate, best grade, locked and soldered together. Put up in rolls 20 inches high, containing 100 and 200 sq. ft. Painted on one side.

No. 4-A-72. Price per roll containing 100 sq. ft. Weight 53 lbs..... $3.00
No. 4-A-73. Price per roll containing 200 sq. ft. Weight 105 lbs..... 5.90

TINNERS' SNIPS.

Best quality. Hand forged Tinners' Snips, fully guaranteed.

No. 4-A-74. 2½ inch cut. Price each... $0.70
No. 4-A-75. 2 inch cut. Price, each... .80

TINNERS' SNIPS.

Cast steel Tinners' Snips. Intended for light work, such as cutting stove pipe or other light sheet iron.
No. 4-A-76. 3 inch cut. Price each.... $0.20

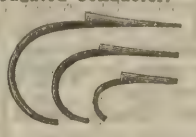
TAFTS CONDUCTOR PIPE FASTENERS.

No. 4-A-77. Suitable for wood or brick buildings. Superior to any other style of conductor pipe hooks or fasteners. Made of heavily galvanized twisted wire. The principal features are, that owing to the construction of this hanger it keeps the pipe from coming in contact with the building, making it possible to paint behind the conductor pipe preventing the moisture from rotting the siding and corroding the pipe. They are easily applied; simply require nailing and tightening up the open ends with a common plier. There is no danger of splitting the siding as is the case when using the conductor hooks that have to be driven in.

Size of Conductor Pipe (Inches)	2	3	4	5	6
Gauge of Wire	12	12	11	10	9
Price per dozen	$0.10	.12	.14	.17	.20

CONDUCTOR HOOKS.

No. 4-A-79. Tinned Conductor Hooks for Corrugated Conductor.



Size Inches	Price per doz. for Wood	Price per doz. for Brick
2	$0.12	$0.15
3	.15	.22
4	.24	.34
5	.32	.48

SHEET TIN.

I. C. Roofing Plates. This is full weight, with coating evenly distributed. Prices subject to market changes.

No. 4-A-80.

Size inches	14x20
No. of sheets in box	112
Weight per box	100 lbs
Price per box	$4.50
Price per sheet	.06

No. 4-A-81.

Size inches	20x28
No. sheets in box	112
Weight per box	200 lbs.
Price per box	$9.00
Price per sheet	.10

PREMIER READY MIXED HOUSE PAINT

Guaranteed for 10 Years. Our Guarantee Protects You.

The quality and durability of Premier Paints are unsurpassed. They are the product of over 25 years of successful and scientific paint making. Only the very best materials possible to procure are used and the finest and most expensive machinery is employed under the direct supervision of the foremost paint maker in the business today. Every shipment comes from freshly made stock thus insuring uniformity of color, greater covering capacity and absolute ease of application. The careful work and study of our paint experts and their personal supervision of each order have made our Premier House Paint the most durable, unfading and entirely satisfactory that can be produced. That's why we guarantee it so freely.

WE GUARANTEE PREMIER HOUSE PAINTS FOR TEN YEARS. IF USED IN ACCORDANCE WITH OUR INSTRUCTIONS IT WILL NOT TURN CHALKY, PEEL, OR BLISTER. WE AGREE TO REPLACE, GALLON FOR GALLON WITHOUT COST TO YOU IF PREMIER PAINT FAILS TO GIVE SATISFACTION. YOU ARE TO BE THE JUDGE OF THIS.

CHICAGO HOUSE WRECKING CO.

If you have any trouble estimating how much paint you require, send us the measurements of your building and we will tell you exactly how much paint you need and how much it will cost you.

Do not let any one convince you that it is necessary to pay a higher price for paint. They will not (because they cannot) guarantee their paint to give better satisfaction than our Premier Brand. We offer you the lowest priced paints which have the greatest actual value. Agreeable and non-fading colors, durability, ease of application and price, all covered by a binding guarantee which protects you. Our million dollars of capital stands back of every can.

Directions for Use of Premier House Paints.

Stir thoroughly before using. For first coat reduce the paint to the proportion of one quart of boiled linseed oil, to one gallon of paint. Brush out well and let dry before applying the second coat. For second coat apply the paint in its natural thickness brushing out well. If necessary thin with linseed oil.

Prepare the surface by giving all knotty or sappy parts a coat of orange shellac. Putty all nail holes, cracks, etc., between coats.

Remember the condition of the surface to be painted has much to do with the result. Never apply paint in cold or wet weather. The surface must be thoroughly dry and well seasoned before the paint is applied. Allow plenty of time between coats.

List of Colors of Premier Ready Mixed House Paints.

No.		No.	
206	French Gray	229	Maroon
207	Lavender	230	Bronze
208	Straw	231	Willow Green
209	Pea Green	232	Drab
210	Light Drab	233	Olive
211	Canary	234	Red
212	Lemon Stone	235	Brown
213	Pear	236	French Yellow
214	Beaver	237	Lead
215	Pink	240	Light Stone
218	Nile Green	242	Dark Gray
219	Olive Drab	245	Yellow Stone
220	Cream	246	Green Tint
221	Fawn	247	Light Slate
222	Pure Blue	249	Sky Blue
223	Buff	251	Colonial Yellow
224	Terra Cotta	255	Azure Blue
225	Apple Green		Outside White
226	Leather Brown		Inside White
227	Pure Gray		Black
228	Light Blue		

Premier Ready Mixed Paint Guaranteed for Ten Years at the Following Prices.

Premium Paint is Manufactured from the Best Quality Materials, and is Carefully Ground and Mixed. Will not Flake, Crack or Peel off Like Ordinary Paint.

No. 4-A-147.	Per Gal.
50 gal. bbls	$0.85
25 gal. ½ bbls	.88
5 gal. cans	.95
1 gal. cans	.98
½ gal. cans each	.53
Qt. cans each	.28

Prices for Special Colors.

No.	5 Gals.
237 Myrtle Green	$1.25
239 Vermilion	1.75
241 Green	1.25
252 Carmine	1.75

No.	1 Gal.	½ Gals.	Qts.
237 Myrtle Green	$1.30	$0.70	$0.40
239 Vermilion	1.80	.95	.50
241 Green	1.30	.70	.40
252 Carmine	1.80	.95	.50

Always remember Premier Ready Mixed House Paint is for both inside and outside use.

If you are going to paint your house, barn or fence or on the inside of your house, you will save money and get the very finest goods offered for sale by buying from us. Our position as the largest handlers of building material in the world enables us to test the goods under every conceivable condition. These tests have always proven so satisfactory that we have made this broad guarantee. We guarantee it for 10 years. You to be the judge.

It is economy to paint, not costly. The cost of painting a house or barn or fence is so little as compared to the value of the protection against rot and decay caused by the elements and to the length of time it prolongs the life of your building, that you can not afford to let your house, barn or fence stand unpainted.

HOW TO FIGURE HOW MUCH PAINT YOU NEED.

One gallon will cover 250 to 300 sq. ft. two coats. It will cover 250 feet (2 coats) on new wood that has not been painted and 300 (2 coats) on repainting wood in fair condition.

For example—should your building measure 40 feet long, 20 feet wide and have an average height of 25 feet.

Front and Rear 20 ft. ea	40 feet
Two Sides 40 ft. ea	80 "
	120 "
Multiply by average height	25
	250) 3000 (12 gal.
	250
	500
	500

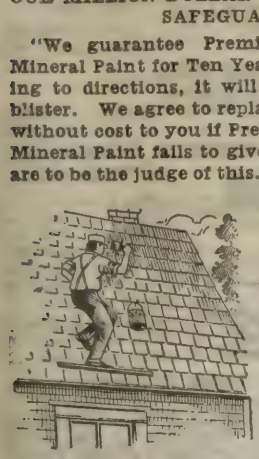
Divide by 250 covering of one gallon, 2 coats and we get twelve gallons, amount of paint necessary to paint a house of the above size, two coats. We sell Premier Brand Paint in 5 gallon cans and in gallon cans. For above building you would require two 5 gallon cans and two 1 gallon cans. It costs 95 cents in 5 gallon cans and 98 cents in 1 gallon cans, so that the total cost of painting the above building would be $11.46. For painting barns or fences use our Barn and Roof Paint and figure the same way.

PREMIER BARN AND ROOF MINERAL PAINT

Guaranteed for Ten Years.

OUR MILLION DOLLAR CAPITAL IS YOUR SAFEGUARD.

"We guarantee Premier Barn and Roof Mineral Paint for Ten Years. If used according to directions, it will not chalk, peal or blister. We agree to replace gallon for gallon without cost to you if Premier Barn and Roof Mineral Paint fails to give satisfaction. You are to be the judge of this."



These paints are a combination of the finest mineral pigments ground and reground with linseed and preservative oils. They are like our house paints, the result of years of experience of a corps of expert paint makers. Premier Brand Barn and Roof Mineral Paint is the ideal protective and preservative for roofs. As a paint for Barns, Fences, Cribs, Tin Roofs, Fence Posts, Elevators, Structural Iron and Bridges, it is second to none. It is the best mineral paint for sale at any price or in any place, and preserves and beautifies your property at little cost.

For the little cost involved you cannot afford to let your roof, fence or other exposed property rot or decay for lack of painting.

At 45 cents a gal. in 50 gal. bbls. you can buy our Premier Roof and Barn Mineral Paint, and insure your property against decay and waste, while at the same time beautify it.

We offer our Premier Barn and Roof Mineral Paint in the following shades and prices:

No. 4-A-149.

No.	No.	No.
800 Drab	802 Brown	804 Indian Red
801 Stone Gray	803 Light Yellow	805 Maroon

1 gal. cans, per gal. **$0.60** 25 gal. ½bbl., per gal. **$0.50**
5 gal. cans, per gal. **.55** 50 gal. bbl., per gal. **.45**

CHEAPEST PAINT SOLD—37 CENTS A GALLON FOR OUR CHALLENGE BARN PAINT.

While we do not guarantee our Challenge Barn Paint, it is nevertheless, a very fair piece of goods for fences, cribs and general rough work. There is no paint sold anywhere at so low a price or any paint as good for anywhere near the same price.

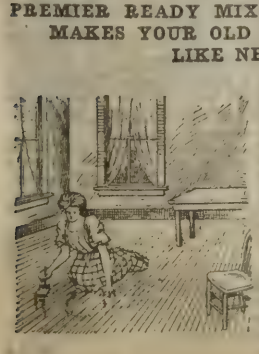
No. 4-A-148. Made only in Red, Brown and Black.

50 gal. bbls., per gallon **$0.37**
25 gal. ½ bbls., per gallon ..... **.42**
5 gal. buckets, per gallon ..... **.47**
1 gal. cans, per gallon ..... **.52**

The above prices illustrate how by our wonderful merchandising facilities we can offer goods at less money than you can buy them elsewhere. These goods are not our best paint but are made merely to meet the inferior grades of paint offered by others at higher prices.

To insure a good lasting job, however, buy our guaranteed Premier Barn Paint. Guaranteed for Ten Years. Premier Barn and Roof Paint is the highest quality mineral paint made.

PREMIER READY MIXED FLOOR PAINT MAKES YOUR OLD FLOORS LOOK LIKE NEW.



No. 4-A-150. This is the best wearing finest finish floor paint made. It dries with a high lustre and retains it after any amount of foot wear and scrubbing. It is very easy to apply, any child could do it. Merely clean the floor free from dust, dirt and grease, allow 24 hours after washing and then apply paint. Two coats on old work and three coats on a new floor will insure a very fine job. Always brush the paint out well.

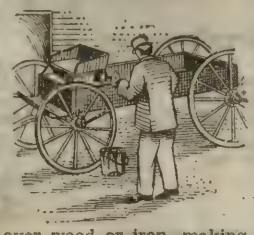
Shades of Premier Ready Mixed Floor Paint.

No.	No.	No.
610 Light Yellow	630 Indian Red	650 Drab
620 Dark Yellow	640 Lead Color	660 Maroon

1 gal. cans, each ... **$0.95** Qt. cans, each **$0.27**
½ gal. cans, each ... **.52**

PREMIER WAGON AND IMPLEMENT PAINT.

One-half gallon at 80 cents will paint almost any wagon and make it look like new.



No. 4-A-151. It is surprising how people will allow valuable wagons and machinery to decay and rust away because they have neglected to spend a few cents and a little time in painting them. Our wagon paint is the finest paint that can possibly be made as it works equally well over wood or iron, making a coating which will withstand all kinds of weather. Outside of greatly improving the appearance of your wagons and implements it is real economy to paint them.

You cannot put a rainy day to better use than by painting your various pieces of farm machinery and wagons with our Premier Wagon Paint. Made in the following shades: Red, Green, Blue, Black, Yellow and Vermilion

1 gal. can ..... **$1.50** Quart can **$0.45**
½ gal. can ..... **.80** Pint can ..... **.25**

PREMIER CARRIAGE AND BUGGY PAINT.

No. 4-A-152. A combination of the finest, most durable, non-fading pigments, carefully ground into the best carriage varnish. This paint is more durable and possesses a smoother, more elastic surface than any other carriage paint made. This is due to the highgrade of varnish we use in its preparation and also to the specially constructed machinery we have in operation combining the color with the varnish.

Two quarts of Carriage or Buggy Paint will make your buggy look like new, at an expense of $1.20. If you wish a different colored running gear from the body, order 1 quart of each color.

Directions—Remove wheels and put body on barrels or other supports. Sand paper the body and wheels and dust carefully. Give hubs a coat of shellac to prevent grease working through. Apply one coat of paint with a varnish brush and allow to dry 24 hours. Putty imperfections, if any with a mixture of paint and putty and allow it to dry thoroughly. Sand paper putty spots to level them and apply last coat.

Made in the following shades:

No.	No.	No.
926 Red	956 Green	976 Vermilion
936 Black	966 Wine	986 Blue
946 Yellow		

Prices:

1 gal. cans **$1.90**
Quarts ..... **.60**
Pints ..... **.32**

PREMIER VARNISH STAIN.
Stains and Varnishes in One Operation.

No. 4-A-155. The above goods are recommended for use over a surface already varnished or painted, such as old furniture or varnished or painted woodwork. It is necessary in order to obtain the best results, to use a stain of a similar shade as the old finish. You cannot finish a Mahogany chair Light Oak by applying Light Oak Varnish Stain. If a change of color is desired we would recommend our Premier Gloss Lacquer. By using the Ground Color and Premier Gloss Lacquer wood finish, this change can be made.

Premier Varnish Stain is made in the following shades:

Cherry	Mahogany	Rose Wood
Light Oak	Walnut	Antique Oak
Dark Oak		

Prices on above colors:

1 gallon cans, each **$1.40**
½ gallon cans, each ..... **.77**
1 quart cans, each ..... **.43**
1 pint cans, each ..... **.24**
½ pint cans, each ..... **.17**

OIL STAIN.
A Perfect Imitation of Natural Wood.

No. 4-A-156. For staining interior wood-work or any work not finished. Dries with a flat finish. One or two coats of varnish over it will produce a fine, glossy surface.

Made in the following colors:

Cherry	Mahogany	Rose Wood
Light Oak	Walnut	Antique
Dark Oak		

Prices on above shades:

1 gallon cans, each **$1.40** 1 pint cans, each ... **$0.24**
½ gallon cans, each **.77** ½ pint cans, each ... **$0.17**
1 quart cans, each. **.43**

PREMIER VARNISHES. THE WORLD'S BEST

"We guarantee our Premier Varnishes to give satisfactory service in every particular where directions are followed, or we will gladly refund you the money value of same, if in your opinion, the goods are not right."

No. 1 EXTRA LIGHT HARD OIL FINISH.

No. 4-A-176. An exceptional varnish of light color of great elasticity. For finishing all kinds of interior woodwork. Preserves the natural grain and color of the wood and dries within 12 hours, with an excellent gloss.

5 gallon cans, each **$6.75**
1 gallon cans, each **1.40**
½ gallon cans, each ..... **.75**
1 quart cans, each ..... **.45**
1 pint cans, each ..... **.30**

No. 1 FURNITURE VARNISH.

No. 4-A-177. An extra fine varnish which is used by high grade furniture manufacturers, dries tough and hard, with a high gloss over night.

1 gallon cans, each **$1.10**
½ gallon cans, each ..... **.60**
1 quart cans, each ..... **.35**
1 pint cans, each ..... **.25**

COACH VARNISH.

No. 4-A-178. A good grade interior varnish for all kinds of woodwork. Dries glossy, with a lasting finish.

1 gallon cans, each **$1.10**
½ gallon cans, each ..... **.60**
1 quart cans, each ..... **.35**
1 pint cans, each ..... **.25**

PREMIER EXTRA COACH VARNISH.

No. 4-A-179. Specially adapted for finishing highest class interior woodwork that wants either a gloss or rubbed finish as this varnish may be rubbed. Dries hard in about 48 hours.

5 gallon cans, each **$6.75**
1 gallon cans, each **1.40**

PREMIER WHITE DAMAR VARNISH.

No. 4-A-617. Made from imported Batavia gum. For finishing over any enameled surfaces, white or ivory, without producing discoloration. It may also be used with excellent satisfaction on fine wall paper hangings or on delicately tinted painted walls. Is of good body and dries well.

5 gallon cans, each. **$7.00**
1 gallon cans, each. **1.50**
½ gallon cans, each. ..... **.85**
1 quart cans, each. ..... **.47**
1 pint cans, each. ..... **.25**

PREMIER ELASTIC CLEAR VARNISH.

No. 4-A-622. Used for finishing gear parts and wheels. Is free working, brilliant and durable. It sets in six to eight hours, and dries hard in thirty-six to forty eight hours. This varnish may also be used for body finishing when drying, dispatch being an important consideration. This is a superior, all around varnish for carriage finishing.

1 gallon cans, each. **$2.85**
½ gallon cans, each. **1.55**
1 quart cans, each. ..... **.80**
1 pint cans, each. ..... **.43**

PREMIER ONE-COAT COACH.

No. 4-A-623. A splendid varnish for general repair work. On carriages, when work is simply dull or lusterless, otherwise in good condition, one coat of this varnish on the entire vehicle will produce a finish practically equal to a new job. It is light in color, elasti , brilliant and durable. Dries free from dust in about twelve hours and hardens to admit the use of the vehicle in about three days.

1 gallon cans, each. **$2.50**
½ gallon cans, each. **1.35**
1 quart cans, each. ..... **.72**
1 pint cans, each. ..... **.38**

PREMIER WEARING FLOOR VARNISH.

No. 4-A-180. The Best Floor Varnish on the market to-day. It is unequaled for floors or oil-cloth. Will not turn white from washing or show footmarks. It is easily applied and gives a tough elastic and elegant finish.

5 gallon cans, each. **$8.00**
1 gallon cans, each. **1.70**
½ gallon cans, each. ..... **.75**
1 quart cans, each. ..... **.53**
1 pint cans, each. ..... **.29**

PREMIER OUTSIDE SPAR.

No. 4-A-181. For finishing all kinds of exposed surfaces such as outside doors, vestibules and store fronts. It is also recommended for finishing inside blinds and the woodwork in bathrooms and on sinks where a very elastic varnish is required.

5 gallon cans, each. **$10.75**
1 gallon cans, each. **2.25**
½ gallon cans, each. **1.25**
1 quart cans, each. ..... **.65**
1 pint cans, each. ..... **.35**

FINE CARRIAGE VARNISHES.

Premier Wearing Body Varnish.

No. 4-A-621. A brilliant, durable, and elastic varnish for finishing carriage and buggy bodies. It works and flows with surprising freedom and may be used on the largest surfaces, such as carriage bodies, with the greatest safety and satisfaction. It is very pale and will not darken or injure the lightest shades of body color. It dries free from dust in twelve to sixteen hours, and hardens properly in from two to three days.

1 gallon cans, each	$3.00
½ gallon cans, each	1.60
1 quart cans, each	.80
1 pint cans, each	.45

PREMIER WAGON AND IMPLEMENT VARNISH.

No. 4-A-624. For agricultural implements, wagons, etc. A good varnish for general outside work; has a good body, a fine luster and is light in color and wears well. Dries in about ten to fourteen hours.

1 gallon cans, each	$1.45
½ gallon cans, each	.83
1 quart cans, each	.46
1 pint cans, each	.25

PREMIER OIL SHELLAC.

No. 4-A-620. This is a clear first coater or filler for new woods that have not been previously finished. It has a good body and produces a substantial and safe surface or base coat. It dries to sandpaper in six to eight hours.

5 gallon cans, each	$5.90
1 gallon cans, each	1.25
½ gallon cans, each	.70
1 quart cans, each	.38
1 pint cans, each	.20

DENATURED ALCOHOL ORANGE SHELLAC.

Orange Shellac.

No. 4-A-625.

1 gallon cans, each	$2.00
½ gallon cans, each	1.05
1 quart cans, each	.58
1 pint cans, each	.31

DENATURED ALCOHOL WHITE SHELLAC.

White Shellac.

No. 4-A-191.

1 gallon cans, each	$2.10
½ gallon cans, each	1.10
1 quart cans, each	.58
1 pint cans, each	.32

PREMIER COACH JAPAN.

No. 4-A-192. A reliable japan for binding and drying colors and rough stuff.

1 gallon cans, each	$1.35
½ gallon cans, each	.78
1 quart cans, each	.44
1 pint cans, each	.25

PREMIER TURPENTINE JAPAN DRYER.

No. 4-A-619. A first-class house painters' japan, dependable in all kinds of weather. A good binder and a sure and quick dryer. It contains no acids and will not cause the paint with which it is mixed to burn, blister, crack, chalk or peel. It mixes readily with oil and does not detract from the elasticity of the paint.

5 gallon cans, each	$3.50
1 gallon cans, each	.80
½ gallon cans, each	.50
1 quart cans, each	.30
1 pint cans, each	.18

PAINT AND VARNISH REMOVER.

No. 4-A-182. Softens Paint or Varnish so that it can be removed easily with a piece of cloth or putty knife. It removes every vestige of paint from the surface so that it looks like new. One pint will remove the varnish from one or two table tops. One-half gallon will remove the paint from a 12'x12' floor.

1 gallon cans, each	$2.00
½ gallon cans, each	1.10
1 quart cans, each	.60
1 pint cans, each	.35

PREMIER BLACK ASPHALTUM.

No. 4-A-618. For finishing all kinds of castings, smokestacks, stove pipes, fenders, coal hods, iron work of agricultural implements, etc. It produces a jet black, brilliant finish and absolutely prevents rust or corrosion. It is heavy in body and quick drying.

5 gallon cans, each	$2.50
1 gallon cans, each	.60
½ gallon cans, each	.40
1 quart cans, each	.22
1 pint cans, each	.13

PREMIER LIQUID WOOD FILLER.

No. 4-A-175. For filling or first coating all kinds of close grained natural woods, such as pine, poplar, etc., that have not been previously finished. Thoroughly seals up the wood pores and prevents suction or absorption of moisture. This material is transparent and does not need to be rubbed off or sandpapered before applying the varnish coats. It does not sink away like varnish, but dries on the surface, thus equalling for work of this nature two coats of varnish. A coat or two of varnish applied over this material produces a really remarkable finish.

Prices:

5 gallon cans, each	$5.15
1 gallon cans, each	1.10
½ gallon cans, each	.62
1 quart cans, each	.33

CRACK AND CREVICE FILLER.

No. 4-A-171. A superior elastic preparation for filling cracks in floors or woodwork before painting. Will not shrink.

1 lb. cans, each	$0.14
5 lb. cans, each	.60

PREMIER PASTE WOOD FILLER.

No. 4-A-172. All opened grained woods such as Oak, Ash, etc., should be filled in order to obtain a perfect varnish. Our paste filler is better than any other as it completely fills the pores, making an impervious surface over which to varnish.

Made in three shades:

Natural	Light Oak	Dark Oak
1 lb. cans, each		$0.09
5 lb. cans, each		.40
25 lb. cans, each		1.75

SPECIAL DRY COLORS.

We carry two Special Dry Colors in stock.

No. 4-A-167. Wagon Red is a very brilliant color and almost as light as Vermilion when mixed with linseed oil. Just the thing for wagons and all kinds of farm implements.

Price, per lb. $0.10

No. 4-A-168. Screen Green is a pure green color, very suitable for window screens and screen doors, and is one of the prettiest greens in the dry colors ever put on the market.

Per lb. $0.09

PREMIER CARRIAGE TOP DRESSING.

No. 4-A-169. This is a waterproof preservative which is guaranteed not to injure the finest leather or rubber. Will improve the appearance of your buggy at very slight cost.

1 quart cans each	$0.50
1 pint cans each	.30
½ pint cans each	.21

BEST LINSEED OIL PUTTY.

No. 4-A-184. Will not crumble or crack.

100lb tubs. $0.02½ 25lb tins, per lb $0.03

Less quantities, per pound. $0.04

DRY COLORS.

No. 4-A-166. We list below only the very best quality of colors. These colors are used for tinting calcimine, making fillers, and other purposes **We do not** recommend mixing them with Linseed Oil for painting purposes as they are too coarse to obtain good results.

	Weight of bbl.	In bbl. Lots, per lb.	Less quantity per lb.
Golden Wash Ochre	400	$0.01	$0.02
Rochelle Ochre	400	.01½	.02
English Golden Ochre		.10	.13
French Ochre	400	.01½	.02
Italian Buff, Light	500	.01	.02
American Venetian Red	350	.01	.01½
English Venetian Red	336	.01½	.02
Snow White Wood Filler	400	.01½	.01¾
Silver White Wood Filler	350	.01½	.02
White Mineral Primer	550	.01½	.02
Spanish Brown	350	.01	.02
Chrome Yellow			.15
Chrome Green, No. 1 best		.07	.09
Chrome Green, Dresden		.10	.13
Prussian Blue			.50
Ultramarine Blue, best			.12
Burnt and Raw Umber	350	.05	.06
Burnt and Raw Sienna	350	.05	.06
Red Lead, 25 lb. kegs			.10
Dark Red Iron Paint	400	.01¼	.01¾
Germantown Lamp Black	50	.10	.11

PREMIER COLORS IN OIL.

No. 4-A-165. The strongest, most durable, unfading colors obtainable. For use in tinting or may be used in present state with addition of proper thinners.

	1 lb. cans	5 lb. cans
Drop Black	$0.15	$0.70
Ivory Black	.17	.80
Coach Black	.16	.75
Prussian Blue	.36	1.65
Ultramarine Blue	.17	.80
Sienna, Raw or Burnt	.12	.53
Turkey Umber, Raw or Burnt	.12	.53
Vandyke Brown	.12	.55
Chrome Green	.14	.65
Scarlet Vermilion	.18	.86
Tuscan Red	.16	.75
Venetian Red	.08	.35
Indian Red	.14	.65
Chrome Yellow	.18	.85
Yellow Ochre	.08	.35
Graining Colors (Antique, Mahogany, Cherry, Walnut)	.12	.55

	Per Lb.
Pure French Ochre in Oil, 12½ and 25 lb. cans	$0.04
English Venetian Red in Oil, 12½ and 25 lb. can	.04
White Ochre in Oil, 12½ and 25 lb. can	.04

ZINC IN OIL.

No. 4-A-162.

French Zinc in 12½ and 25 lb. cans, per lb	$0.10
American Zinc in 12½ and 25 lb. cans, per lb	.08

PLASTER PARIS.

No. 4-A-163.

Per bbl. (about 200 lbs.)	$2.25
Less than bbl., per lb	.02½

WHITING.

No. 4-A-164.

Whiting in bbls. (about 350 lbs.), per lb	$0.01
Less than bbl., per lb	.02½

PORCELAIN BATHTUB ENAMEL.

In White Only.

No. 4-A-157. An ordinary iron tub can be made to look like the finest porcelain tub by the use of our Porcelain Bath-Tub Enamel.

1 quart cans, ea.	$0.75
1 pint cans, each	.45
½ pint cans, each	.25

PREMIER GLOSS ENAMEL.

For Fine Interior Enamel Work.

No. 4-A-154. A high grade interior finish on wood or plaster walls. Especially for use on walls where you wish to get the highest possible lustre—the real enamel finish.

Premier Gloss Enamel is most easy to apply. It is particularly adapted for walls and ceilings in bed-rooms, bath-rooms and kitchens, making an impervious enamel finish. It is also used extensively for work on bed-steads, exposed pipes and other metal surfaces.

Made in the following large assortment of shades, giving opportunity for many harmonious combinations:

Pearl	Nile Green	Lilac
Light Slate	Pea Green	Pink
Cream	Light Blue	Lavender
Apple Green	Dark Blue	Carmine

Prices for above colors:

1 gallon cans each	$1.48	1 quart cans each	.45
½ gallon cans each	.78	1 pint cans each	.25

GOLD PAINT.

No. 4-A-626. For gilding everything and anything, fancy baskets, picture frames, toys, chandeliers, iron beds, mantels, cistern pumps, gas pipes, mouldings, iron shelf brackets, metal ornaments, stationery and all kinds of paper work. Put up in neat wooden box, brush included.

Small size. Price each	$0.10
Large size. Price each	.20

GOLD RADIATOR ENAMEL.

No. 4-A-627. For radiators or other steam or hot water heated surfaces. The brightest gold finish may be obtained with this material. It dries very hard with a smooth finish, and will not discolor. Box containing 1 oz. bottle Bronzing Liquid, 1 oz. bottle Gold Bronze, 1 cup for mixing, 1 Camel Hair Brush. Price per box. $0.25

PREMIER ALUMINUM ENAMEL OR SILVER PAINT.

No. 4-A-628. The brightest and most brilliant Aluminum Enamel made. The dry powder and liquid come separately in a neat, compact can, and are mixed when ready to use. It is unlike the ready mixed article, in that the finish is bright and smooth, almost like a nickel plate. Old scratched picture frames can be reclaimed and made to look like new with one coat of this material. It produces a rich aluminum or silver finish on picture frames, room moulding, chairs, iron beds, tables, baskets, bicycles, statues, sewing machines, curtain poles, and trimmings, baby carriages, trays, mail boxes, umbrella holders, chandeliers and gas fixtures, kitchen and bathroom fixtures, iron fences, water and gas pipes.

1 pint cans, each	$0.49
½ pint cans, each	.31
¼ pint cans, each	.20

BRONZE POWDERS.

No. 4-A-176. No. 1 Gold Bronze Powder. A good quality for general use. When ordering be sure to mention shade desired. Light, medium, or rich gold.

1 ounce package	$0.06
Per pound	.75

No. 4-A-177. No. 2 Gold Bronze Powder. Finest quality. Will go farther than any other. When ordering be sure to mention shade desired. Light, medium, or rich gold.

1 ounce package	$0.08
Per pound	.95

ALUMINUM OR SILVER POWDER.

(Chemically Pure.)

No. 4-A-178. Fine quality for general use. Nothing better on the market.

1 ounce package	$0.18
Per pound	1.15

BRONZING LIQUIDS.

For mixing with Bronze Powders.

BANANA LIQUID.

No. 4-A-180.

½ pint cans, each	$0.18
1 pint cans, each	.30
1 quart cans, each	.48

MIXING LIQUID.

No. 4-A-181.

½ pint cans, each	$0.13
1 pint cans, each	.19
1 quart cans, each	.30

ALUMINUM LIQUID.

No. 4-A-182.

½ pint cans, each	$0.18
1 pint cans, each	.30
1 quart cans, each	.48

PREMIER GLOSS LACQUER

The Housekeeper's Friend.

No. 4-A-153. Changes old, scratched, marred pieces of furniture and unsightly floors into new, brilliant and beautiful objects. It is so easily applied that the most inexperienced person can use it and make your old furniture and woodwork look like new at an expense of but a few cents. Best of all, this beautiful finish can be applied by any housewife, and the resulting work will be just as satisfactory as if an expert wood-finisher had done it. If you have anywhere in your house, from basement to garret, any chair, table, chiffonier, bedstead, book-case or desk, or any floors or woodwork, base-boards or doors which you would like to renew in the natural wood colors, all you need is a small amount of Premier Gloss Lacquer. A few minutes time and a small can of Premier Gloss Lacquer will change any article in the house to a bright, spic span, new looking object.

Directions—Over hardwood fill with Premier Paste Wood Filler and then apply Premier Gloss Lacquer like ordinary varnish. Dark Oak or Walnut will conceal all discolorations in an old floor. On new soft wood or old painted floors it is best to apply one coat of ground color and then two of Premier Gloss Lacquer. Always allow 24 hours between coats. Apply with flat varnish brush.

Made in the following shades:

Light Oak	Flat White	Rose Wood
Dark Oak	Ground Color	Royal Red
Cherry	Gloss Black	Walnut
Moss Green	Flat Black	Clear
Gloss White	Mahogany	

Prices:

½ pint can, per can	$0.20
1 pint can, per can	.32
1 quart can, per can	.57
1 gal. can, per can	1.90
5 gal. can, per can	9.00

PREMIER LINOLEUM FINISH.

No. 4-A-170. Do not let your floor oilcloth or linoleum wear out when you can for a few cents preserve it and give a more lasting and finer finish than it had when new. Put this material over your linoleum and it gives it a smooth, hard, elastic finish that will bend as the linoleum does and will not crack. It overcomes the uneven wearing quality of linoleum which has always before been objectionable.

It keeps your floor bright and beautiful and largely increases the life of the linoleum or oilcloth. Not affected by hot or cold water. One coat put on at night will be all that is needed. Dries to walk on the next morning.

Prices.		Prices.	
1 gallon cans, each	$2.00	1 quart cans, each	$0.60
½ gallon cans, each	.10	1 pint cans, each	.36

PREMIER SCREEN ENAMEL.

Ready for Use.

No. 4-A-158. Does not clog the meshes of the screen and gives a lasting, brilliant finish with the application of one coat. Easy to apply.

Made in Black, Green and Dark Green.

Pints	$0.24
½ pints	.14

PREMIER STOVE PIPE ENAMEL.

No. 4-A-159. The best coating for stove-pipes and heated iron surfaces. Wears longer and has a smoother, more elastic finish. It is a combination of high grade Black, with the best baking Varnish obtainable.

1 gallon cans, each	$1.25
½ gallon cans, each	.70
1 pint cans, each	.20
½ pint cans, each	.12

STRICTLY PURE WHITE LEADS.

We carry in stock Red Seal, Southern, Shipman, Collier or Eckstein, which we offer at market prices.

MORTON WHITE LEAD IN OIL.

No. 4-A-160. It is very fine and white, but is not intended for white finishing coats, because it does not contain the dense capacity of the other brands we catalogue. It can be used with excellent satisfaction in colored paints, and is a good priming or first coat lead. Morton Lead cannot be duplicated in quality, and price by any competitor.

100 lb. keg	$4.00
50 lb. keg	2.00
25 lb. keg	1.00
12½ lb. keg	.50

ECLIPSE WHITE LEAD IN OIL.

No. 4-A-161. The reputation of this white lead is world wide, and we can recommend it to be a very good and durable piece of goods, exceedingly white and finely ground. It is a serviceable white lead for all painting purposes. It mixes easily and spreads smoothly.

100 lb. keg	$5.00
50 lb. keg	2.50
25 lb. keg	1.25
12½ lb. keg	.65

PREMIER CREOSOTE SHINGLE STAIN.

No. 4-A-615. This stain is not the cheap mixture which is sometimes offered by other manufacturers (which will not do the work required of it), but is a high grade, scientifically made piece of goods. We have used in this paint Creosote preservative, which is acknowledged to be the best wood preserver known at the present time. The colors are durable, penetrating, and will not fade and act as a waterproof coating on the shingles making them immune from decay. It is just as important to preserve the roof as any other portion of the house, yet a large percentage of people who build, while they will paint the body of their house will not give the roof a coat of paint, for preservative purposes. The shingles can be dipped in the stain or they may be painted with a brush after being laid. When applied with a brush, one gallon will cover about 150 square feet of surface, one coat, or 100 square feet, two coats. For dipping it will require 2½ to 3 gallons to dip 1,000 shingles. The shingles need be dipped only two-thirds of it's length.

Made in the following shades:

Brown	Red	Moss Green
Maroon	Black	Bronze Green
Walnut	Cedar	Light Yellow
Light Green		

At the following prices:

50 gallon barrels, per gallon	$0.65
25 gallon ½ barrels, per gallon	.70
5 gallon cans, per gallon	.75
1 gallon cans, per gallon	.80

PROTECTO ASPHALT PAINT.

No. 4-A-174. An unequaled preservative paint for roofs and exposed surfaces. After much investigation we are able to offer in our Protecto paint, what we believe is undoubtedly the best paint on the market for preserving metal and felt roofs, fences, tanks, agricultural implements, in fact all exposed surfaces, from the ravages of rust and decay.

Protecto Paint is made of the highest grade of asphalt, combined by special process with mineral oils. No coal tar, rosin or other cheap materials enter into its composition.

When applied to a metal surface one gallon covers 300 square feet, giving a glossy black finish, which is not affected by the weather and which will not crack or peel. For use around factories it is unequalled on smoke stacks, boilers, pipes and machinery. It will not taint the water, and can be used for painting the inside and outside of cisterns to prevent seepage.

1 gallon cans, each	$ 0.53
2 gallon cans, each	.89
3 gallon cans, each	1.18
5 gallon cans, each	1.90
10 gallon cans, each	3.55
25 gallon bbl	6.55
50 gallon bbl	12.25

DURO JET COATING.

No. 4-A-175. A black protective coating. Manufactured by special process from a refined pitch, fluxed with mineral oil.

One gallon covers about 100 square feet. The material dries in 24 hours.

Duro jet is especially valuable for preserving felt roofs or surfaces exposed to water or dampness. It can be used with good result on any exposed surface. In this paint we have the best low price black coating on the market.

1 gallon cans, each	$0.30
2 gallon cans, each	.54
5 gallon cans, each	.95
10 gallon cans, each	1.75
25 gallon bbl	2.90
50 gallon bbl	4.95

PREMIER COLD WATER KALSOMINE.

For Interior Use.

No. 4-A-185. Premier Cold Water Kalsomine is a dry powder specially prepared, that when mixed with cold water is ready to apply to the walls. Follow directions on package for preparing kalsomine. You will obtain a smooth, velvet-like finish, and it will work so easily that the most inexperienced person can do a perfect job. For re-kalsomining, sponge off the walls with hot water and you will remove all dust and dirt along with the kalsomine, so that your new coat will give you a clean, sanitary wall. If you have painted walls, apply the kalsomine directly over them; as the paint acts as a good under-coat.

Two packages of Premier Cold Water Kalsomine are enough to do an ordinary room.

Directions—Follow directions on package for preparing the Kalsomine. Walls that are new, or that have never been kalsomined or painted, should first be sized with Gloss Oil or a cheap Varnish, thinned with benzine or turpentine. Allow six hours for sizing to dry before applying Kalsomine. If the room has been kalsomined, wash off the old kalsomine with warm water and sponge until the walls are thoroughly clean. Apply with a good bristle kalsomine brush.

Made in the following shades:

White	613 Azure Blue	614 Yellow	
601 Cream	610 Blue Gray	617 Buff	
606 Light Tan	605 Pink	618 Turquoise Blue	
612 Light Green	607 Lavender	604 Green Tint	
622 Rose	602 Pale Blue	620 Deep Blue	
608 Drab	603 Light Pink	630 Deep Green	

Price per package, above tints	$0.26
White per package	.24

COLD WATER PAINT.

No. 4-A-616. In dry powder form, requiring the addition of cold water only to make it ready for use. Will stand great weather exposure and will not rub, scale or crack.

The fire retardant qualities of Cold Water Paint are universally recognized and make it a first-class paint for factories, shops, elevators and other buildings where a rough but satisfactory job is required.

Owing to the fact that Cold Water Paint is mixed with water, it is not satisfactory on iron or tin surfaces, but it can be used on stone, brick and wood.

One pound of Cold Water Paint will cover from 25 to 75 square feet, according to the surface.

Smooth painted boards, 60 to 80 square feet.
Smooth unpainted boards, 50 to 75 square feet.
Rough unpainted boards, 25 to 40 square feet.
Soft unpainted brick, 25 to 40 square feet.
Hard unfinished brick, 40 to 65 square feet.
Stone, 25 to 40 square feet.

Directions—To prepare for use, add one measure of water to two of the powder and stir until free from lumps, then add sufficient water to make the paint the consistency of thick cream. It will then spread easily under the brush. Care should be taken not to mix too thin. Apply with kalsomine or whitewash brush.

	350 lb Bbls.	100 lb. Drum.	50 lb. Kegs.	25 lb. Kegs.	5 lb Pkgs.
White	$0.05	$0.06	$0.06½	$0.06½	$0.07
Green	.11	.11½	.12	.12½	.13
All colors except Green	.08	.08½	.09	.09½	.10

"PERFECTION" MACHINE OIL.

No. 4-A-235. A dark red oil of medium body, suitable for shafting, pulleys and general work of all kinds.

50 gallon barrels, per gallon	$0.18
25 gallon barrels, per gallon	.22
10 gallon jacketed can, per gallon	.24
5 gallon jacketed can, per gallon	.26
1 gallon can	.32

SUMMER BLACK OIL.

No. 4-A-236. A good lubricant.

50 gallon barrels, per gallon	$0.11
25 gallon barrels, per gallon	.15
10 gallon jacketed can, per gallon	.24
5 gallon jacketed can, per gallon	.26
1 gallon can	.32

ZERO BLACK OIL.

No. 4-A-237. A thin oil which can be used in cold weather and will lubricate perfectly.

50 gallon barrels, per gallon	$0.13
25 gallon barrels, per gallon	.17
10 gallon jacketed can, per gallon	.20
5 gallon jacketed can, per gallon	.22
1 gallon can	.28

No. 1 CASTOR MACHINE OIL.

No. 4-A-238. An extra heavy compounded castor oil. Guaranteed to hold its body under severe heat and to be the best of its kind manufactured.

50 gallon barrels, per gallon	$0.17
25 gallon barrels, per gallon	.22
10 gallon jacketed can, per gallon	.24
5 gallon jacketed can, per gallon	.25
1 gallon can	.31

No. 2 CASTOR MACHINE OIL.

No. 4-A-239. The same character as No. 1, but not quite so heavy.

50 gallon barrels, per gallon	$0.16
25 gallon barrels, per gallon	.21
10 gallon jacketed can, per gallon	.22
5 gallon jacketed can, per gallon	.24
1 gallon can	.30

HARVESTER OIL.

No. 4-A-240. This is compounded oil of very high test. Guaranteed to maintain its heavy consistency in summer or winter. Suitable for all kinds of farm machinery, wind mills, etc.

50 gallon barrels, per gallon	$0.19
25 gallon barrels, per gallon	.23
10 gallon jacketed can, per gallon	.27
5 gallon jacketed can, per gallon	.28
1 gallon can	.31

XX WINTER STRAINED LARD OIL.

No. 4-A-241. This oil is largely used for thread cutting, lubricating and as a lantern oil. Guaranteed pure.

50 gallon barrels, per gallon	$0.75
25 gallon barrels, per gallon	.79
10 gallon jacketed can, per gallon	.81
5 gallon jacketed can, per gallon	.82
1 gallon can	.85

No. 1 LARD OIL.

No. 4-A-242. Generally used for lubricating and thread cutting purposes. This oil will not burn.

50 gallon barrels, per gallon	$0.53
25 gallon barrels, per gallon	.57
10 gallon jacketed can, per gallon	.59
5 gallon jacketed can, per gallon	.60
1 gallon can	.62

PURE NEATSFOOT OIL.

No. 4-A-243. Very fine for oiling leather and general use. Strictly pure, guaranteed.

50 gallon barrels, per gallon	$0.72
25 gallon barrels, per gallon	.76
10 gallon jacketed can, per gallon	.78
5 gallon jacketed can, per gallon	.79
1 gallon can	.82

No. 1 NEATSFOOT OIL.

No. 4-A-244. This oil is blended, and is therefore lighter in body than the pure oil. However, it will compare with most neatsfoot Oil represented as pure. It is suitable for dressing leather of any kind.

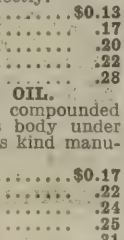
50 gallon barrels, per gallon	$0.55
25 gallon barrels, per gallon	.59
10 gallon jacketed can, per gallon	.61
5 gallon jacketed can, per gallon	.62
1 gallon can	.65

Combination Step Ladders

Bought at Manufacturers' Sale—Three Carloads

Painters, Carpenters and all others who use ladders and who want to be absolutely sure of a thoroughly reliable ladder, when working at elevated heights are urged to consider the merits of this high grade combination ladder with patent locking contrivances.

The various illustrations below show a few of the many uses of this high grade improved combination step-ladder and running ladder. The economy and general utility which these cuts signifies will appeal to you as worthy of careful consideration. These ladders are put together by skilled workmen and nothing but the best material is used in their construction. The side rails are made from the best pine. The rounds are made of hickory and are set into the side rails with a shoulder. The steps are made of basswood and set into grooves in the side rails. Each step except the top is reinforced by a bolt under it with a washer on each end. The use of these bolts and rounds make the ladder the firmest as well as the most reliable on the market. All castings are malleable and of strictly high grade character. This ladder can be extended to twice the length of an ordinary step ladder, and in addition thereto will lock automatically. It's unquestionably one of the greatest ladders of its kind on the market. Note that the prices quoted below are far below the actual value of the ladders. We are quoting these low prices simply to close out the lot on hand.

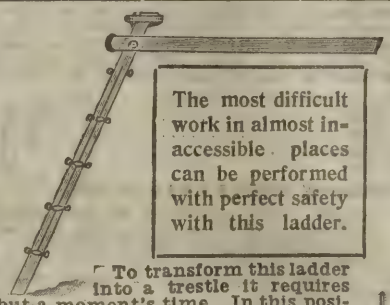


View of Combination Ladder used as Step-ladder.

WE OFFER THEM AT LESS THAN COST

Every Carpenter, Painter and person who uses a step ladder of any kind should order one of these great bargains at once before the limited quantity on hand is sold out.

If you want a ladder that can be depended upon to be absolutely reliable and safe under all conditions, we urge that you order one of these high grade ladders at once.



The most difficult work in almost inaccessible places can be performed with perfect safety with this ladder.

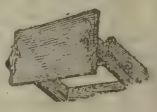
To transform this ladder into a trestle it requires but a moment's time. In this position the ladder is very handy for paper hangers or painters. It is frequently used as a trestle for work in a staircase.

RUNNING LADDER

The above cut shows this ladder in an extended position. This is one of the best features of this ladder. This illustration shows how it is possible for this ladder to answer the purpose of two ladders. The lock is automatic, and the heavier the weight upon it the tighter it will hold, making it absolutely impossible for accidents to occur. We urge that you order one of these ladders from us today.

Length as Ladder	Length as Extension Ladder	Price each
4 ft.	7 ft.	$0.80
5 ft.	9 ft.	1.00
6 ft.	11 ft.	1.20

Above illustration shows the Combination Ladder folded. As you will note, it requires but small space for storage. It can be easily carried from place to place.



We give a top view of this ladder, so as to bring out more clearly the castings with which all of these ladders are equipped. These castings work automatically and force the extending ladder to remain absolutely rigid and firm at any elevation to which it is extended. The legs of the ladder are caught and held in place by this automatic device.

SEMI-STEEL STEP LADDERS

No. 4-A-250. The strongest and best step ladder ever produced. We secured 1,500 of these at a Receiver's Sale. When this lot is gone we cannot duplicate them. **Send in your order quick.**

Construction.—The sides of the ladder are made of special cold rolled steel formed under immense pressure and are many times stronger than the wooden sides used in the construction of common step ladders, and are practically indestructible.

The brackets supporting the steps are also made of cold rolled pressed steel. Steps are clear, heavy **Norway Pine,** riveted to the steel brackets, there being two rivets at each end of each step.

The back of these ladders is made of clear Norway pine, strongly trussed and fitted with an improved spreader which would make it impossible for the ladder to collapse.

Each ladder is equipped with pail shelf as shown in illustration.

Height, feet	4	5	6	7
Price each	$0.80	$1.00	$1.20	$1.40

EXTENSION LADDERS.

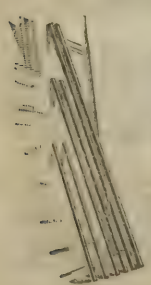
No. 4-A-246. The sides of these ladders are made of clear iron with hickory rungs, which are so fastened that the sides and the rungs cannot separate.

The extension rollers are of improved design and very strong. The hooks are also made heavier than on the ordinary extension ladder. In fact we guarantee that these ladders are of the finest possible construction and that there is nothing better on the market.

We furnish these ladders in any lengths required.

20 to 40 feet, in two sections.
Price per ft. $0.13

30 to 60 feet, in three sections,
Price per ft. .14



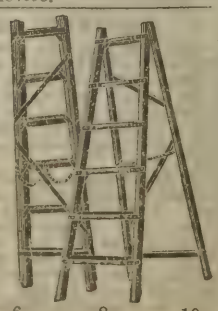
FARM OR LONG LADDERS.

No. 4-A-249. Made with Norway pine rails, turned hickory rungs. Each rung turned with a shoulder which imparts much additional rigidity to the ladder. These ladders are extra well constructed and are suitable for any general purpose.

	Price
Length 10 ft	$1.00
Length 12 ft	1.20
Length 14 ft	1.40
Length 16 ft	1.60
Length 18 ft	2.15
Length 20 ft	2.40

PAINTERS' COMBINED TRESTLE AND STEP LADDER.

No. 4-A-248. These ladders are strong and well built, made of clear Norway pine. They are well braced and are arranged so that a plank may be put on either step.



Height feet	5	6	8	10
Price	$1.05	1.26	1.60	2.00

PAINT BRUSHES

We are offering a line of well selected brushes, all of which are made in the best possible manner and are guaranteed fully in every respect, when used for the purposes for which they are offered, and in this connection we think it is advisable to offer a few suggestions regarding the care of brushes.

The very best as well as the cheapest brush can be ruined, at least partially so, if they are not properly cared for. Paint and varnish, as well as calcimine and whitewash brushes should not be allowed to stand on the ends of bristles over night, but should always be cleaned thoroughly before quitting work and carefully hung up; paint and varnish brushes in oil or varnish, and calcimine and whitewash to dry.

Should you find a brush that has become loose from shrinkage, take a tablespoonful or so of water, open the brush and pour the water into the center. This will swell the parts and make the brush as firm as when first made.

New brushes when first put in work are apt to shed any loose bristles that have not been fastened when made. Care is taken to remove these loose bristles before shipment; however, it is impossible that every brush be free from loose bristles, and we therefore recommend that before starting on a job that the brush be dipped in the paint or varnish and be drawn across a rough board or surface several times. This will generally free the brush from any loose bristles.

Calcimine and whitewash brushes must never be put in newly slaked lime or acids as it will destroy the bristles. If the mixture is too hot to put your hand in it will burn the bristles and thereby destroy the brush.

FITCH FLOWING VARNISH BRUSHES.

No. 4-A-196. Extra quality, single thick, tin ferrules.

Size, Inches	Price Each
1	$0.16
1½	.24
2	.32
2½	.40
3	.48

DOUBLE THICK FITCH FLOWING VARNISH BRUSHES.

No. 4-A-197. Chisel Point, extra quality, suitable for fine work.

Size inches	1	1½	2	2½	3
Price each	$0.19	.28	.36	.45	.51

BADGER HAIR FLOWING VARNISH BRUSHES.

No. 4-A-198. Suitable for fine furniture, picture frames, pianos and carriages. Single thick, chisel point, tin ferrules.

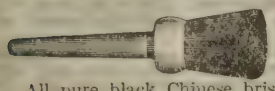
Size Inches	Price each
1	$0.20
1½	.30
2	.40
2½	.55
3	.60

XX FLAT VARNISH BRUSH.

No. 4-A-199. Chisel Point, nickeled band, fine selected black Chinese bristles, double thick. An excellent mechanic's sash or trimming brush. It is also a good family brush.

Size Inches	1	1½	2	2½	3
Price each	$0.10	.18	.23	.33	.40

OVAL VARNISH BRUSHES.



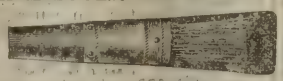
No. 4-A-200. Suitable for varnishing floors, woodwork and other surfaces of considerable area.

All pure black Chinese bristles, chisel pointed, nickel plated ferrule, carefully made and an excellent family or painter's brush. For varnish or paint. This brush will give excellent satisfaction.

Sizes	1-0	2-0	3-0	4-0	5-0	6-0
Length in.	2⅜	2½	2⅝	3	3¼	3½
Price each	$0.25	.35	.40	.45	.50	.62

SASH TOOLS.

No. 4-A-201. Used for painting window sash, mouldings, and for work in close places where a small brush is required. Selected black Chinese bristles, oval, chisel pointed brush. Very elastic and a fine wearing tool.



Size inches	2	4	6	8	10
Length inches	1¼	1⅜	2	2⅛	2¼
Price each	$0.07	.09	.12	.15	.21

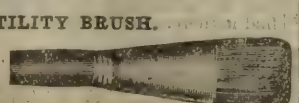
EXTRA FRENCH SASH TOOLS.

No. 4-A-202. All fine white bristles. Wire bound.

Diam. inches	½	¾	1	1¼
Price each	$0.03	.04	.06	.08

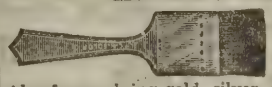
UTILITY BRUSH.

No. 4 - A-203. Suitable for varnishing, bronzing, enameling or lacquering.



Price each $0.10

MOTTLING BRUSHES.



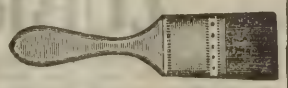
No. 4 - A - 204. Made of genuine camel's hair. Used for carriage work in putting on color. Also for applying gold, silver, aluminum and every other thin paint. These brushes are not suitable for varnishes.

Short handles, tin ferrules, glue set, not to be used in water.

Size inches	¾	1	1½	2	2½	3
Price each	$0.13	.14	.17	.23	.36	.39

EXTRA THICK CAMEL'S HAIR MOTTLING OR COLOR BRUSH.

No. 4-A-205.



Size Inches	Price Each
¾	$0.20
1	.21
1½	.31
2	.45
2½	.59
3	.79

ROUND PAINT BRUSHES.

No. 4 - A-206. This is a good brush for general work. Is wire bound, white Russian bristles outside, and mixed center.

Size inches	1	2	3	4	5	6
Length bristles, inches	3	3½	3½	3¾	4⅛	4⅜
Price each	$0.16	.18	.21	.24	.30	.37

No. 4 - A - 207. Round paint brush, all fine white selected Russian bristles, wire bound. Regular painters' brush.

Sizes	1-0	2-0	3-0	4-0	5-0	6-0
Length bristles, inches	3¾	4	4¼	4½	4¾	5
Price, each	$0.52	.60	.70	.98	$1.15	$1.40

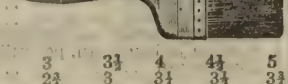
WALL BRUSHES.

No. 4 - A - 208. Used for painting walls, floors or other surfaces of large area.

All pure Chinese bristles, metal bound, extra long

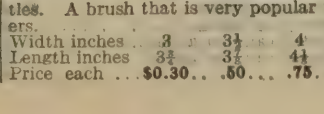
Width inches	2½	3	3½	4	4½
Length inches	2½	2½	2⅝	2½	2⅝
Price each	$0.10	.13	.16	.21	.32

WALL BRUSH.



No. 4 - A-209. Superior quality, extra select black Chinese bristles, brass bound. A brush that will give excellent satisfaction.

Width inches	2½	3	3½	4	4½	5
Length in.	2½	2⅜	3	3¼	3½	3¾
Price each	$0.22	.25	.36	.48	.60	.72

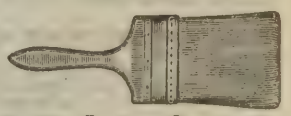


No. 4 - A-210. Extra long bristle wall brush, brass bound, extra select black Chinese bristles. A brush that is very popular with the painters.

Width inches	3	3½	4	4½	5
Length inches	3⅜	3½	4¼	4⅜	4½
Price each	$0.30	.50	.75	.86	$1.25

"PERFECTION" WALL BRUSH.

No. 4-A-211. All white, pure Russian bristle, extra long and heavy. Brass bound and is a regular mechanic's brush.



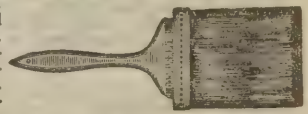
Sizes	6	7	8	9
Width inches	3	3½	4	4½
Length bristles	3¾	4	4¼	4½
Price each	$0.57	.84	$1.15	1.47

STUCCO WALL PAINT BRUSHES.

No. 4-A-212. All pure white Russian bristles. Leather bound. A high grade painter's brush warranted in every way.

Width inches	3	3½	4	4½
Length bristles inches	4¾	5	5¼	5½
Price each	$1.00	1.10	1.40	1.55

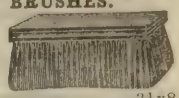
No. 4-A-213. Stucco Wall Paint Brush. Long extra quality. Black Chinese bristles. Fully guaranteed.



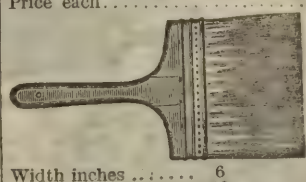
Size No	25	30	35	40
Width inches	3	3½	4	4½
Length bristles, inches	4	4¼	4½	4¾
Price each	$0.70	.90	$1.10	1.25

WALL STIPPLING BRUSHES.

No. 4-A-214. Used for obscuring brush marks and to produce rough effect on the painted walls. Made of the highest grade gray bristles.



Size	3½x8
Length bristles inches	3
Price each	$1.50



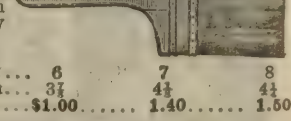
CALCIMINE BRUSHES.

No. 4-A-215. Guaranteed all white bristle. Metal bound. An excellent brush for ordinary work.

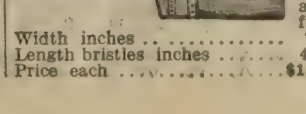
Width inches	6	7	8
Length bristles in	3¾	3½	3¾
Price each	$0.63	.75	.95

"PERFECTION" CALCIMINE BRUSH.

No. 4-A-216. All white Russian bristles. Brass bound. A high grade family brush.



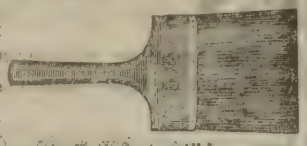
Width inches	6	7	8
Length bristles, in.	3¾	4¼	4½
Price each	$1.00	1.40	1.50



Specially selected all white Russian bristle calcimine brush. Brass bound. Regular painter's brush and guaranteed fully.

Width inches	7	8
Length bristles inches	4¼	4½
Price each	$1.65	2.10

NEW YORK STANDARD CALCIMINE BRUSH.



No. 4-A-218. Galvanized iron bound. gray Russian bristle middle and yellow Okata bristle outside. These brushes are extra well constructed and are practically indestructible.

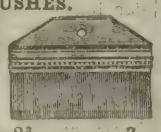
Width inches	7	8
Length bristles inches	5½	5½
Price each	$2.95	3.35

GERMAN CALCIMINE BRUSH.

No. 4-A-219. This is an excellent brush and can be used for Cold Water Paint. This style of brush is used by the largest painting contractors throughout the country. It will hold more calcimine and do better work than other styles of calcimine brushes. Is made of an extra quality Russian bristle. Set with special brushmakers pitch and is fully guaranteed.

Size of block inches	2¼x7½
Length bristles inches	4½
Price each	$2.95

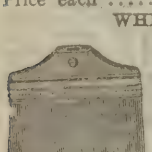
WHITE WASH BRUSHES.



No. 4-A-220. This is a very satisfactory brush for rough white washing and common work. Metal bound, white bristle outside with soft Tampico center.

Size No	7	8	
Width inches	7	8	
Length bristles inches	2¾	3	
Price each	$0.25	.30	

WHITEWASH BRUSH.



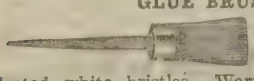
No. 4-A-221. Brass bound, all white bristles. An excellent family whitewash and calcimine brush. For general purposes this brush cannot be excelled.

Width inches	7	8	9
Length bristles inches	3¼	3½	4
Price each	$0.85	1.35	1.50

No. 4-A-222. Extra quality whitewash brush, leather bound. All white pure Russian bristles. Very heavy and stocky. Just the brush for mechanics. Guaranteed to be the best whitewash brush on the market.

Width inches	9	9
Length bristles inches	4	5
Price each	$2.55	3.40

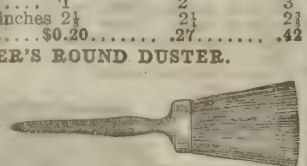
GLUE BRUSHES.



No. 4-A-223. Made with iron handles to prevent shrinkage. Brass ferrule and selected white bristles. Warranted to stand hot glue.

Size	1	2	3
Length bristles inches	2½	2½	2¾
Price each	$0.20	.27	.42

PAINTER'S ROUND DUSTER.



No. 4-A-224. Gray mixed bristles. Set with pitch extra deep in block, and warranted to hold.

Length of bristles 4½ inches. Price each....$0.40

PAINTER'S FLAT DUSTER.

No. 4-A-225. A flat duster is preferred by many painters, inasmuch as it will not roll off on to the ground. Made with black bristles set deep into the block.

Width 4 inches. Price each.....$0.57

SAND PAPER.

No. 4-A-188. This is the very best quality of sand paper manufactured. The sand is sharp flint sand applied to paper by special process. The glue is manufactured especially for the purpose. We guarantee it to be the best wearing sand paper manufactured.

The No. 00 is the finest and No. 3 the coarsest. Put up 24 sheets to the quire, one number only.

Assorted quires take the sheet price.

Nos.	00	0	½	1	1½	2	3
Price per 24 sheets	$0.16	.17	.18	.20	.22	.24	.26
Six sheets for	$0.05	.05	.05	.07	.07	.08	.08

XXX QUALITY EMERY CLOTH.

No. 4-A-189. Made on heavy twilled cloth back and covered with the best quality of Turkish emery. The best emery cloth possible to produce.

Nos.	00	0	½	1	1½	2
Price per 24 sheets	$0.72	.73	.76	.78	.80	.84
Three sheets for	$0.10	.10	.12	.12	.13	.13

GLUES.

No. 4-A-190. First Grade Flake Glue. Suited for the requirements of the woodworking trade. Can be used on both soft and hard woods, but is especially adapted to furniture repairing. Can also be used for making printers' rollers, emery wheels, white mouldings and for any other purpose where great strength and flexibility are required.

Price per pound	$0.17
Price in 100 lb. drums, per lb	.16
Price in 200 lb. drums, per lb	.15

XX FLAKE CARPENTER GLUE.

No. 4-A-191. Especially adapted for cabinet makers, carpenters and general repairing.

Price per pound	$0.15
Price in 100 lb. drums, per lb	.14
Price in 200 lb. drums, per lb	.12

XXX KALSOMINE GLUE.

No. 4-A-192. This is a thin cut pure hide glue, used largely by kalsominers, also by cabinet makers for high grade joining.

Price per pound	$0.18
Price in 100 lb. drums, per lb	.17

SIZING FLAKE GLUE.

No. 4-A-193. This is an excellent glue for veneering, book binding, paper boxes, joining soft woods, sizing barrels, pails, composition mouldings, kalsomining and wall sizing, and for any other purpose where better grade of glue is not required.

Price per pound	$0.10
Price in 100 lb. drums, per lb	.09½
Price in 200 lb. drums, per lb	.09

GROUND GLUE.

No. 4-A-194. The same as Sizing Flake Glue except that it is ground, and it therefore can be prepared much quicker. It requires soaking but 30 minutes.

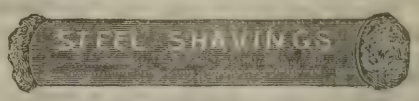
Price per pound	$0.11
Price in 100 lb. drums, per lb	0.10
Price in 200 lb. drums, per lb	.09½

FLAKE GELATINE.

No. 4-A-195. Used for high grade joining, repairing leather belts, sizing walls, etc.

Price per pound	$0.28
Price in 100 lb. drums, per lb	.27
Price in 200 lb. drums, per lb	.26

STEEL WOOL AND SHAVINGS.



No. 4-A-187. Steel wool is made of fine fibers of steel, resembling curled hair, and is used as a substitute for sand paper, emery and pumice stone. When used for rubbing down fillers and varnishes, it will be found superior to sand paper or pumice stone.

The steel shavings are coarse and are used for removing rust from iron preparatory to painting. It is also used for cleaning floors or any surface that has been previously varnished.

No. 0. Very fine. Price per lb	$0.42
No. 1. Fine. Price per lb	.33
No. 3. Medium. Price per lb	.28
Steel Shavings. Price per lb	.22

LUBRICATING OILS

We are in a position to furnish high grade oils at a less price than you can secure similar oils elsewhere. We have just perfected arrangements with one of the largest independent oil refiners in the United States to supply our requirements.

Aside from refining the oil, they own their own wells and tank lines and are in unusually good position to supply a high grade oil.

We guarantee every gallon of oil that we sell to be as represented, and to be as good as can possibly be secured for the purpose for which it is intended.

CYLINDER OILS.

The Cylinder Oils that we offer are made from the highest grade Pennsylvania crude, which is carefully refined and distilled and guaranteed not to contain foreign matter. It is non-corrosive. The viscosity and gravity tests are high.

"PREMIER" CYLINDER OIL.

No. 4-A-226. Refined from the very best quality crude and guaranteed to be equal to any of the higher priced oils on the market. It is amber in color.

50 gallon barrels, per gallon	$0.34
25 gallon barrels, per gallon	.37
10 gallon jacketed can, per gallon	.39
5 gallon jacketed can, per gallon	.41
1 gallon can	.47

"PERFECTION" CYLINDER OIL.

No. 4-A-227. Red Tiona Stock, compounded with acidless tallow. Especially suitable for low pressure. Dark green in color.

50 gallon barrels, per gallon	$0.30
25 gallon barrels, per gallon	.33
10 gallon jacketed can, per gallon	.35
5 gallon jacketed can, per gallon	.38
1 gallon can	.44

HIGH PRESSURE CYLINDER OIL.

No. 4-A-228. This oil is specially compounded for high steam pressure from high grade Franklin stock. We guarantee that this oil is equal in every respect to the High Pressure Cylinder Oil offered at much higher prices. Dark green in color.

50 gallon barrels, per gallon	$0.30
25 gallon barrels, per gallon	.33
10 gallon jacketed can, per gallon	.35
5 gallon jacketed can, per gallon	.38
1 gallon can	.44

GASOLINE ENGINE CYLINDER OIL.

No. 4-A-229. This is a strictly high grade compounded oil which we positively guarantee will not in any way injure your engine but that it will improve its running qualities. This oil will positively not gum or congeal and is without any question the very best Gasoline Engine Cylinder Oil on the market.

50 gallon barrels, per gallon	$0.27
25 gallon barrels, per gallon	.32
10 gallon jacketed can, per gallon	.34
5 gallon jacketed can, per gallon	.35
1 gallon can	.40

AUTOMOBILE GASOLINE CYLINDER OIL

No. 4-A-230. Absolutely the finest Oil made. Non-carbon, non-corrosive, high fire test, viscous, odorless and guaranteed not to smoke or char the spark plug. This oil can be used with perfect safety in the best automobiles manufactured.

50 gallon barrels, per gallon	$0.50
25 gallon barrels, per gallon	.57
10 gallon jacketed can, per gallon	.59
5 gallon jacketed can, per gallon	.60
1 gallon can	.65

ENGINE OIL.

No. 4-A-231. High grade dynamo, metal and engine oil. High fire test, low cold test and good viscosity. Will re-filter. This is an oil we will guarantee to give perfect satisfaction under all conditions.

50 gallon barrels, per gallon	$0.25
25 gallon barrels, per gallon	.28
10 gallon jacketed can, per gallon	.30
5 gallon jacketed can, per gallon	.32
1 gallon can	.38

"PERFECTION" RED ENGINE OIL.

No. 4-A-232. This is a bright red oil—500 fire test—200 viscosity, and is an excellent oil for traction and portable engines of all kinds.

50 gallon barrels, per gallon	$0.20
25 gallon barrels, per gallon	.23
10 gallon jacketed can, per gallon	.25
5 gallon jacketed can, per gallon	.28
1 gallon can	.34

SEPARATOR OIL.

No. 4-A-233. A light colored thin oil, suitable for hand separators, wind mills, and for general lubricating purposes. This oil is guaranteed not to gum or congeal.

50 gallon barrels, per gallon	$0.24
25 gallon barrels, per gallon	.29
10 gallon jacketed can, per gallon	.31
5 gallon jacketed can, per gallon	.32
1 gallon can	.37

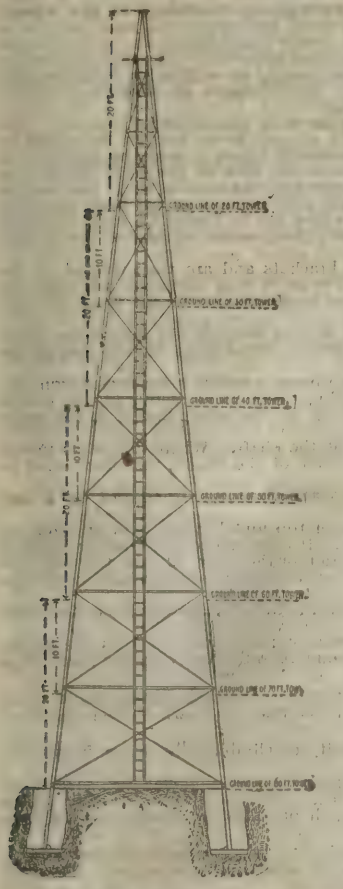
"PREMIER" SPECIAL MACHINE OIL.

No. 4-A-234. This is a heavy black oil specially compounded for heavy machinery of all kinds. Its lubricating qualities are much greater than any other light bodied oil on the market. If you have had trouble with bearings that are inclined to run hot, we recommend the use of this oil. You will find it thoroughly lubricates and cools the bearings and will not gum.

50 gallon barrels, per gallon	$0.25
25 gallon barrels, per gallon	.28
10 gallon jacketed can, per gallon	.30
5 gallon jacketed can, per gallon	.32
1 gallon can	.39

$13.75 and up "PREMIER" FOUR POST ANGLE STEEL WIND MILL TOWER.

The Most Substantial Tower Manufactured. Heavily Galvanized After Construction.



"Premier" Towers are better constructed than Towers being generally offered for this purpose, and without any question they are the strongest and most substantial towers made.

The Corner Posts are bolted together just below the Cross Girts. A set of Cross Girts is provided for every 10 foot section, the last being close to the ground and just above the anchor post joint. Each 10 foot section of tower is thoroughly braced by four sets of round steel brace rods, which rods are not reduced in size in any way but have an eye turned at each end of them. These brace rods run from the upper Cross Girt down diagonally across the side of the Tower to joint of the next lower Cross Girt. The two rods on each side of the Tower cross each other at the center of the section. Here they are clamped together by especially devised clamps by means of which the brace rods can be tightened so as to make the Tower absolutely rigid and firm. In every case, however, each rod of each principle brace has the same tension as is placed on its mate, so it is impossible to get an uneven tension on any of the rods.

In addition to this style of bracing, which is superior to the braces ordinarily used, we employ a style of bracing seldom found in Towers of other makes; that is, we run diagonal cross rods from corner post to corner post inside of Tower by means of which the Tower is squared up, making it as strong and rigid as it would be were it a solid steel box.

The ladder is also of heavy construction and firmly riveted so it is perfectly safe for anyone to climb. The platforms are large and unusually well constructed.

We furnish these Towers in three styles, properly built and guaranteed to give first class satisfaction, when used in connection with the Mills in sizes for which they are designed.

Prices include the steel Towers, Anchor Posts, Platform and Platform Ladder.

FOR SIX AND EIGHT FOOT MILLS.

	Height Feet	Style Number	Weight Pounds	Price Each
No. 4-A-482	20	1	350	$13.75
	30	1	535	20.40
	40	1	700	26.70
	50	1	940	37.50
	60	1	1,150	47.25

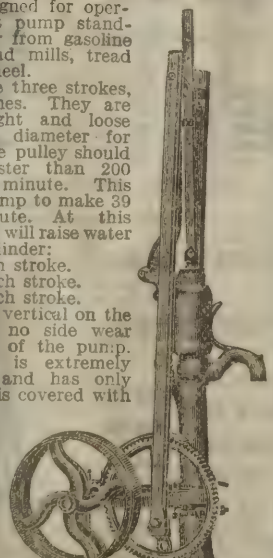
FOR 10 FOOT MILLS.

	Height Feet	Style Number	Weight Pounds	Price Each
No. 4-A-483	20	2	390	$15.00
	30	2	560	22.50
	40	2	745	29.90
	50	2	1,000	39.90
	60	2	1,250	48.70

FOR 12 FOOT MILLS.

	Height Feet	Style Number	Weight Pounds	Price Each
No. 4-A-484	20	3	545	$22.00
	30	3	790	31.50
	40	3	1,045	42.25
	50	3	1,385	55.50
	60	3	1,745	64.00

PREMIER BACK GEARED PUMP JACK.



This Jack is designed for operating ordinary belt pump standards by belt power from gasoline engines, power wind mills, tread power or water wheel.

These Jacks have three strokes, 5, 7½ and 10 inches. They are furnished with tight and loose pulleys, 13 inches diameter for two inch belt. The pulley should not be driven faster than 200 revolutions per minute. This would cause the pump to make 39 strokes per minute. At this speed, two inch belt will raise water with a 3 inch cylinder:

200 feet on a 5 inch stroke.
150 feet on 7½ inch stroke.
100 feet on a 10 inch stroke.

The Pitmans are vertical on the upstroke and put no side wear on the piston bar of the pump. This Pump Jack is extremely simple in design and has only one gearing which is covered with a shield to prevent anything getting into it.

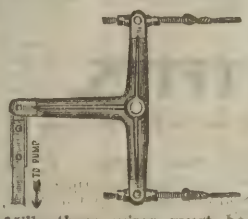
The Pump Jack is fastened to the Pump Standard by means of a clamp and four bolts, making it convenient to fasten to all ordinary pump standards. There is a foot on the back part of the Jack which rests on the platform and helps support the Pump Jack and also to brace the pump.

The Crank Shaft presses down and holds the pump down when the Pitmans are pushing the piston bar up and lifting the water.

There is much less difficulty in getting a good foundation when it is set a few feet away from the well than when it must be set partly over the well, as it is necessary where the engine operates the pump by means of a walking beam.

No. 4-A-489. Premier Back Geared Pump Jack, Weight, 75 lbs. (not including pump). Price **$6.95**

WIND MILL QUADRANT.



The Quadrants are generally used to transmit power and motion from a Pumping Mill or Pump Jack to Pump.

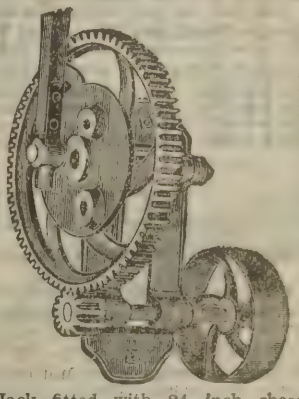
These levers are like in form and are connected by two wires which are drawn tight by take-up bolts in the lever ends. When used with Pumping Mills these wires must be crossed so as to give a lift on the pump rod when the Wind Mill is on the up-stroke. A third arm of one lever is connected to the pump pole of the Pumping Mill or Pump Jack. The third arm on the other lever is connected by a pole leading from the lever to the pump.

By means of the Quadrant Levers you can make connection with a pump within any reasonable distance and in almost any location, frequently being able to make use of the Wind Mill where it could not otherwise be used, and sometimes making it possible to set a Tower Mill in a much more desirable location in relation to the machines to be operated by it.

No. 4-A-485. Furnished with a pump connection, 8 foot of wood pump pole, pivot plates, and center bolts. Weight, per set, of two, 50 lbs. Price, per set of two without wires..... **$2.95**

No. 4-A-486. Quadrant Wires for connecting above quadrants, price, per foot..... ½ Cent

PUMP JACKS.



This Jack is geared back one to six so pump rod makes one complete stroke while the driving pulley makes six revolutions.

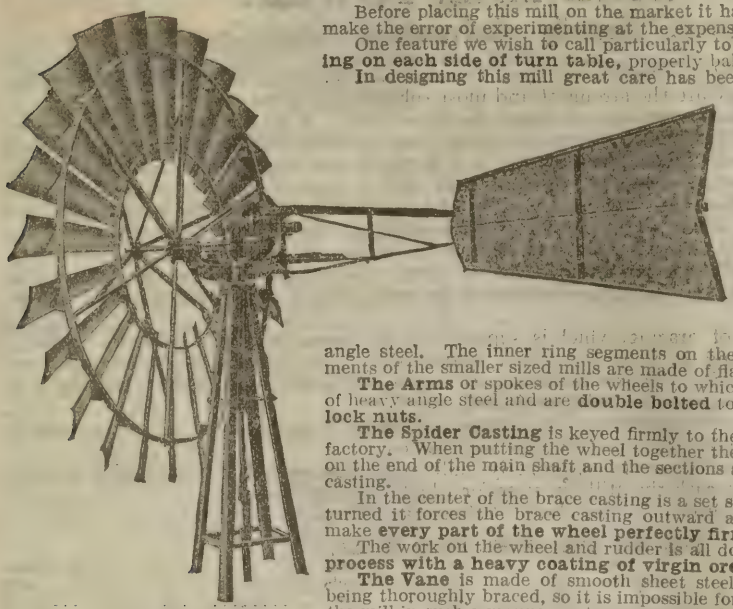
Ordinarily it is driven by pulleys and a belt, but under some conditions it is more desirable to drive with sprocket wheels and chain belting or with sheave wheels and wire cable. Therefore, when ordered we will furnish in place of pulley this Jack fitted with 24 inch sheave wheel so it may be run by wire rope; or we will furnish it with sproket wheel of 8 inch diameter to take chain belting the proper size to transmit necessary power.

This Jack is always furnished with pulleys unless otherwise specified and is complete with 8 ft. of pump pole and necessary bolts to attach the Jack to the post on which it is secured.

No. 4-A-487. Size No. 1, Pump Jack 10x4 inch pulley, suitable for all sizes of Power Wind Mills, especially adapted for operating pumps. Arranged with 6, 9 and 12 stroke. Weight, 90 lbs. Price..... **$6.75**

No. 4-A-488. Size No. 2, Pump Jack, 12x5 inch pulley, designed especially to be used in connection with large pumps having long cylinders, or with irrigation pumps when operated by power Wind Mills, arranged with 12, 15 and 18 inch stroke. Weight, 150 lbs. Price..... **$9.75**

PREMIER BACK GEARED WIND MILLS



Before placing this mill on the market it has been thoroughly tested under all conditions, and we therefore do not make the error of experimenting at the expense of our customers.

One feature we wish to call particularly to your attention is the fact that the main shaft is supported by **a bearing on each side of turn table,** properly balancing the entire machine and **preventing overhang of the wheel.**

In designing this mill great care has been used to obtain the greatest amount of power with the least amount of friction and securing a governing device which would be both effective and reliable. These points have been achieved. All material used in the Premier Mills and Towers is such as is best adapted to their requirements and is sufficiently heavy to withstand all strains to which machines of this class are subjected.

The Wheels of our mills are made in the following manner; The sails are made of sheet steel heavy enough so we are not compelled to bead the edges to obtain the necessary strength, and the brackets to which they are riveted are secured to the back of the sails, the face or front of the sails offers no resistance to the wind after it has accomplished its work. The shape of the sails is such as has been found to possess the **most effective curvature** and to present a most desirable angle to the weather, thus obtaining the greatest amount of power with the least amount of friction.

The sails are riveted to steel brackets and are then riveted to the inner and outer ring segments. The outer ring segments are made of angle steel. The inner ring segments on the larger sized mills are also made of angle steel, while the inner ring segments of the smaller sized mills are made of flat steel turned edgewise.

The Arms or spokes of the wheels to which the outer and inner rings of the several sections are bolted are made of heavy angle steel and are **double bolted** to the iron spider or center piece with machine bolts having **double or lock nuts.**

The Spider Casting is keyed firmly to the main shaft close to the outer main bearing before it is shipped from the factory. When putting the wheel together the arms are bolted to the spider casting. The brace casting is then placed on the end of the main shaft and the sections and braces are bolted to the arms and the braces are bolted to the brace casting.

In the center of the brace casting is a set screw which bears against the end of the shaft. When this set screw is turned it forces the brace casting outward and causes an equal tension upon each of the braces, the effect being to make **every part of the wheel perfectly firm, true and rigid.**

The work on the wheel and rudder is all done on black metal, then **all parts are thoroughly coated by a hot process with a heavy coating of virgin ore spelter,** preventing rust.

The Vane is made of smooth sheet steel firmly secured to heavy angle steel top and bottom bars or arms, all being thoroughly braced, so it is impossible for it to become twisted out of shape. It is hinged to the head or body of the mill in such a manner as to compensate for the tendency of the wind and motion of the wheel to turn the mill out of the proper angle. We thus utilize the full power of the wind until the required velocity is obtained. The vane then acts as a governor and keeps the wheel at a proper angle to sustain speed and power.

As the wind pressure is reduced, the governor spring forces the vane back into place and by this means the wheel is turned into the face of the wind so as to obtain the full benefit thereof.

Premier Mills are geared two and one-half in one; That is, the wheel revolves two and one-half times to one stroke of the pump rod. As the power increases in direct proportion to the speed of the motor, it will be readily understood that a back geared mill will give more satisfactory results than will a direct stroke mill.

The Main Shafts are made of polished steel and are proportioned to withstand the strain they are required to sustain. These shafts are made extra long and have a double bearing. Compare this with other mills and you will find that the main shaft is short and it has but one bearing which is bound to cause overhang of the wheel.

The Journal Bearings are long and are provided with automatic or **self oiling boxes,** which obviates the necessity of climbing the tower frequently for the purpose of oiling the journals.

The device which operates the pump rod is a rocker arm constructed so the movement of the pump rod is in nearly a perpendicular line, so that no side strain is exerted on the mill. The upward movement is slower than the downward, therefore the greatest power is exerted when most needed; That is, when water is being lifted. High grade babbitt is used in all journal boxes and the box in which the wrist pin (which operates the rocker arm) is contained, is fine brass, therefore we claim that our mills have the most desirable and most serviceable bearings.

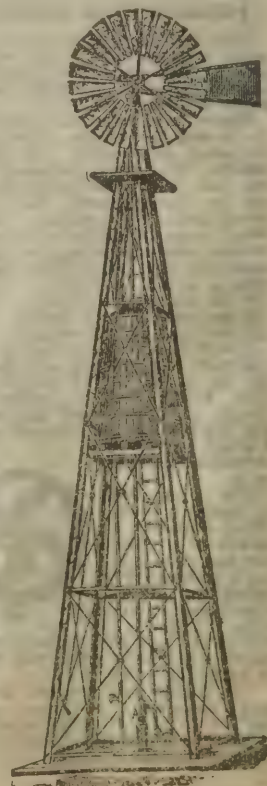
The Pull Out Device of our mill is so arranged that a good leverage is obtained and are therefore easily operated, An effective brake is provided on the pump and tower mills, so when the arms are pulled out of the wind the brake is applied, causing the wheel to remain absolutely motionless. The shoe which operates the brake lever is attached to the vane and is adjustable, so that more or less pressure may be brought to bear upon the brake.

The Premier Mills Are Self Governing. With each pumping mill we furnish pump connections, pull out lever and sufficient pump pole and pull out wire for the height of tower ordered with mill.

Mills Are Always Furnished With Wood Tower Fittings when ordered without tower. With steel tower fittings when ordered with steel tower and with mast fittings only when specified in order.

Prices are net f. o. b. cars factory near Chicago.

No. 4-A-469.	6 ft.	Premier Wind Mill, Weight 300 lbs. Price	**$13.50**
No. 4-A-470.	8 ft.	Premier Wind Mill, Weight 385 lbs. Price	**18.75**
No. 4-A-471.	10 ft.	Premier Wind Mill, Weight 470 lbs. Price	**25.00**
No. 4-A-472.	12 ft.	Premier Wind Mill, Weight 850 lbs. Price	**44.50**



SUBURBAN OUTFITS.

The Premier Suburban Outfit consists of a wind mill, a tower and a tank elevated in the tower at heights as specified below.

The tower is a four post Premier angle steel tower, specially constructed for these outfits.

The tanks are made of cypress and are furnished complete with conical cover, 2 inch galvanized stand pipe with heavily galvanized flanges for tank bottom and tank joints. One pipe only is necessary to go up to the tank. Prices do not include pump or pipe to lead up to the tank. For prices on these we refer you to our pump department.

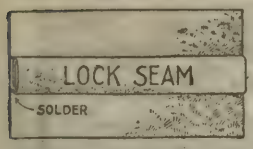
No. 4-A-473.	Premier Suburban Wind Mill Outfit with 8 ft. wind mill, 40 ft. No. 6 tower, 20 bbl. tank 20 ft. above the ground. Price	**$ 91.75**
No. 4-A-474.	Premier Suburban Wind Mill Outfit with 8 ft. wind mill, 50 ft. No. 6 tower, 20 bbl. tank 20 ft. above the ground. Price	**105.00**
No. 4-A-475.	Premier Suburban Wind Mill Outfit with 8 ft. wind mill, 60 ft. No. 6 tower, 20 bbl. tank 20 ft. above the ground. Price	**121.00**
No. 4-A-476.	Premier Suburban Wind Mill Outfit with 10 ft. wind mill, 40 ft. No. 7 tower, 40 bbl. tank 30 ft. above the ground. Price	**112.50**
No. 4-A-477.	Premier Suburban Wind Mill Outfit with 10 ft. wind mill, 50 ft No. 7 tower, 40 bbl. tank 30 ft. above the ground. Price	**127.90**
No. 4-A-478.	Premier Suburban Wind Mill Outfit with 10 ft wind mill, 40 ft. No. 7 tower, 60 bbl. tank 30 ft. above the ground. Price	**151.90**
No. 4-A-479.	Premier Suburban Wind Mill Outfit with 10 ft. wind mill, 40 ft. No. 7 tower, 60 bbl. tank 30 ft above the ground. Price	**121.00**
No. 4-A-480.	Premier Suburban Wind Mill Outfit with 10 ft. wind mill, 50 ft. No. 7 tower, 60 bbl. tank 30 ft. above the ground. Price	**138.50**
No. 4-A-481.	Premier Suburban Wind Mill Outfit with 10 ft. wind mill, 60 ft. No. 7 tower, 60 bbl. tank 30 ft. above the ground. Price	**163.00**

All tanks included in our suburban outfits are made of 1½ inch Louisiana cypress. If tanks made of 2 inch cypress are desired, add to the above prices the following:

Extra for 20 bbl. tank made of two inch cypress	**$ 8.25**
Extra for 40 bbl. tank made of two inch cypress	**10.90**
Extra for 60 bbl. tank made of two inch cypress	**14.75**

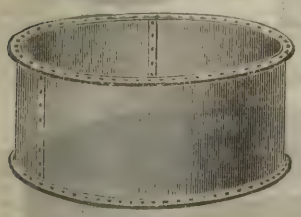
GALVANIZED STEEL TANKS

Made of Full Weight U. S. Standard Gauge Galvanized Steel.



All joints are lock-seamed (see illustration). This is considered the best possible construction as there are four thicknesses of metal, finished in workmanlike manner, distributing the strain evenly. The sides and bottom are formed by flanging together and riveting between two bars of iron, ¾ in. flat iron and 3/16 in. rivets being used. The top of all the tanks, excepting the smaller sizes, are surrounded by and securely riveted to a 1 in. angle steel. No black iron comes in contact with the water, therefore, these tanks will not rust out. Shipment of tanks are made direct from factory in Northern Indiana. We guarantee prompt shipment and your money back if the tank is not satisfactory in every particular. Would advise that tanks weighing more than 200 lbs., going a distance of 500 miles or more be shipped knocked down as you will save about half freight charges. With all tanks shipped knocked down we furnish solder and rivets. Every section is properly marked to facilitate erection, every rivet hole is in its proper place and every iron is properly bent, making it a simple job to set tank up. When so desired we will ship knocked down any of the stock tanks which we offer. The sides will be detached from the bottom and on the smaller tanks the bottoms are in one piece, while in the larger tanks the bottoms are in two pieces. The sides are seamed together, except one joint, and rolled into a bundle. In setting up the tanks only two joints on the small sizes and three joints on the large sizes are put together at destination. An angle bar around the outer edge of bottom is riveted to the bottom and also has riveted holes to receive the side, which is all fitted. In setting up the tank stand the roll for the side end down on the bottom and unroll, bringing the two riveted holes of the side and bottom marked to match together and rivet it; finish the side seam and put on the rim at the upper edge with rivet hole of tank and designated by a mark. Hammer up all seams so that pressure will not spring them and crack the solder, being careful to solder all small rivets over. The large rivets must be drawn up carefully to fill holes out so that water cannot pass through them. The capacity of tanks shown in barrels is based on 31½ gallons to the barrel. In figuring the capacity on round end tanks no allowance has been made for the round corners, so these tanks will not hold quite as much as their rated capacity shows.

ROUND GALVANIZED STEEL TANKS.



Made of No. 20 gauge galvanized steel, guaranteed. Always shipped set up unless otherwise ordered. This gauge of steel is sufficiently heavy in any of the sizes which we offer these tanks for ordinary stock watering or storage purposes. We can furnish these tanks made of No. 18 gauge steel at an additional charge of 20% to the following prices: If furnished with ¾, 1 or 1½ in. threaded pipe connection for which there will be an additional charge of 25 cts. for each connection. Prices given below are F. O. B. cars, factory Northern Indiana.

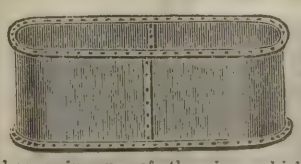
No.	Diameter Feet	Height Feet	Capacity Bbls.	Weight Lbs.	Price Each
19-A- 1	3	2	3½	70	$ 3.60
19-A- 2	4	2	6	90	5.00
19-A- 3	4	2½	7	100	5.70
19-A- 4	4	3	9	109	6.20
19-A- 5	4	4	12	135	7.35
19-A- 6	5	2	9½	115	6.60
19-A- 7	5	2½	12	129	7.90
19-A- 8	5	3	14	140	8.75
19-A- 9	5	4	19	169	10.75
19-A-10	6	2	14	150	9.30
19-A-12	6	2½	17	170	10.80
19-A-13	6	3	20	190	11.35
19-A-14	6	4	27	230	14.10
19-A-15	6	5	34	260	16.95

ROUND GALVANIZED STEEL STORAGE TANKS.

These tanks are always shipped knocked down as they are too large to be shipped set up ready for use. Every tank that we ship is set up at our factory in order that it may be carefully inspected before knocking down to crate and every section is properly marked to facilitate erection. When it leaves our factory we know that every rivet hole is in the right place and every iron is bent to the proper angle. These tanks can be very readily set up and we furnish sufficient solder and rivets to complete the job. Full instructions also accompany each shipment. If furnished with ¾, 1 or 1½ in. threaded pipe connections for which there will be an additional charge of 25 cents for each connection. Prices given below are F. O. B. cars factory Northern Indiana.

No.	Dia. Ft.	Ht. Ft.	Cap. Bbls.	Wt. Lbs.	Price 20 G.	Price 18 G.	Price 16 G.
19-A-35	6	6	40	340	$19.75	$23.75	$28.80
19-A-36	6	8	54	360	24.00	28.60	34.25
19-A-37	8	5	60	390	25.00	30.00	36.00
19-A-38	8	6	72	450	29.85	35.95	43.00
19-A-39	8	8	95	520	36.00	43.50	52.50
19-A-40	8	10	120	620	.....	48.00	58.00
19-A-41	10	8	150	700	.....	54.00	65.00
19-A-42	10	10	180	850	.....	63.00	76.00

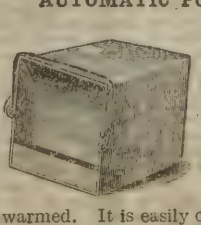
ROUND END GALVANIZED STEEL STOCK TANKS.



Made of No. 20 gauge galvanized steel, guaranteed. Always shipped set up unless otherwise ordered. This gauge of steel is sufficiently heavy in any of the sizes which we offer these tanks for ordinary stock watering or storage purposes. We can furnish these tanks made of No. 18 gauge steel at an additional charge of 20% to the following prices. If furnished with ¾, 1 or 1½ in. threaded pipe for which there will be an additional charge of 25 cents for each connection. Prices given below are F. O. B. cars, factory Northern Indiana. On tanks 6 or 8 ft. long we furnish one angle brace across the top and two on each side. On the 10 ft. tanks there are two braces across the top and three on each side.

No.	Width Feet	Height Feet	Length Feet	Capacity Bbls.	Weight Lbs.	Price Each
19-A-16	2	2	4	3½	65	$ 3.65
19-A-17	2	2	6	5	90	5.00
19-A-18	2	2	8	7½	120	6.25
19-A-19	2	2½	8	9½	147	6.90
19-A-20	2½	2	8	9½	147	6.95
19-A-21	2½	2½	8	12	150	7.45
19-A-22	3	2	8	12	146	7.50
19-A-23	3	2½	8	14	160	8.80
19-A-24	4	2	8	15	155	9.35
19-A-25	4	2½	8	17	174	10.80
19-A-26	4	2½	8	17	174	10.80
19-A-27	4	3	8	23	212	13.00
19-A-28	3	2	10	14	165	8.85
19-A-29	3	2½	10	18	190	11.00
19-A-30	3	3	10	21	215	12.15
19-A-31	4	2	10	19	205	11.45
19-A-32	4	2½	10	24	234	13.60
19-A-33	4	3	10	29	265	15.20
19-A-34	4	2	16	30	320	16.95

AUTOMATIC POULTRY FOUNTAIN.



This fountain is closed tight except a small space near bottom where fowls have access to water. It will not burst by freezing. It retains water in sanitary condition. Fowls cannot get into it or turn it over. Chicks can drink without danger of drowning. Can be set on a stove and water warmed. It is easily cleaned and is indestructible.

No. 19-A-127. One gallon size. Price..... $0.34

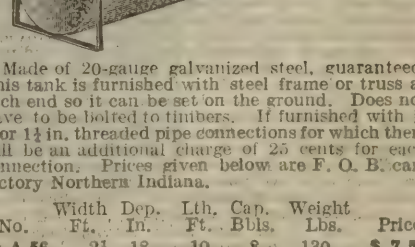
No. 19-A-128. Two gallon size. Price..... .42

SQUARE END GALVANIZED STEEL TANKS.

Made of No. 20 gauge galvanized steel guaranteed. This gauge of steel is sufficiently heavy in the sizes which we offer these tanks, for ordinary stock watering or storage purposes. We can furnish these tanks made of No. 18 gauge steel at an additional charge of 20% to the following prices. If furnished with ¾, 1 or 1½ in. threaded pipe connection, for which there will be an additional charge of 25 cents for each connection. Prices given below are F. O. B. cars, factory Northern Indiana.

No.	Width Ft.	Height Ft.	Lth. Ft.	Cap. Bbls.	Weight Lbs.	Price Each.
19-A-43	2	2	4	6	78	$ 4.25
19-A-44	2	2	6	7½	108	4.75
19-A-45	2	2½	8	9½	140	5.50
19-A-46	2	2	8	9½	155	6.85
19-A-47	2½	2	8	12	146	7.50
19-A-48	2½	2	8	12	167	7.55
19-A-49	3	2	8	15	154	8.10
19-A-50	4	2	8	17	183	8.15
19-A-51	4	2½	8	23	210	10.25
19-A-52	4	3	8	14	247	11.90
19-A-53	3	2	10	18	195	14.20
19-A-54	3	2½	10	19	218	9.65
19-A-55	4	2	10		225	12.15

ROUND BOTTOM GALVANIZED STEEL TANKS.



Made of 20-gauge galvanized steel, guaranteed. This tank is furnished with steel frame or truss at each end so it can be set on the ground. Does not have to be bolted to timbers. If furnished with ¾, 1 or 1½ in. threaded pipe connections for which there will be an additional charge of 25 cents for each connection. Prices given below are F. O. B. cars factory Northern Indiana.

No.	Width Ft.	Dep. In.	Lth. Ft.	Cap. Bbls.	Weight Lbs.	Price.
19-A-56	2½	18	10	8	130	$ 7.50
19-A-57	2	20	10	8	150	7.50
19-A-58	2½	18	8	6	130	6.50
19-A-59	2	20	8	6	130	6.50
19-A-60	1½	8	10	2	60	2.75
19-A-61	2	12	10	5	100	5.00
19-A-62	1½	14	10	5	100	5.00
19-A-63	2	12	8	4	90	4.40
19-A-64	1½	14	8	4	90	4.40
19-A-65	3½	22	10	13	175	9.00
19-A-66	3	24	10	13	175	9.00
19-A-67	3½	22	8	10	165	8.75
19-A-68	3	24	8	10	165	8.75
19-A-69	4	24	10	20	200	12.00
19-A-70	4	24	8	16	185	10.50

STEEL TANKS AND HEATERS

Style "C"

Style "D"

Style "E"

HINGE COVERS FOR STEEL TANKS.

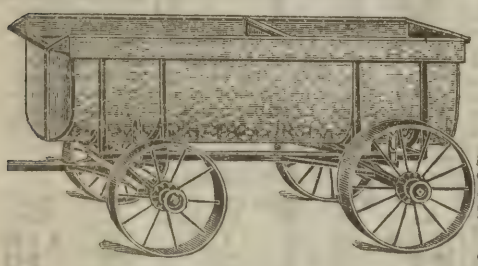
Style "A"

We can furnish flat hinged galvanized steel covers, made for round end or square end tanks. We sell these covers by the square ft., measuring round tanks as though they were square and round end tanks as though they were square; as an illustration: In figuring on the cover for a round tank 4 ft. in diameter we figure this as 4x4 equals 16 square ft. In figuring on a square end tank 4 ft. long 2 ft. wide we figure 4x2 equals 8 square ft. For round end tanks 6 ft. long, width 2 ft., we figure 6x2 equals 12 square ft. These covers are made up in No. 20 gauge steel. In ordering be sure and state the style of cover required.

No.		Price
19-A-71.	Galvanized steel cover, Style "A." Price per square ft	$0.12
19-A-72.	Galvanized steel cover, Style "B." Price per square ft	.12
19-A-73.	Galvanized steel cover, Style "C." Price per square ft	.12
19-A-74.	Galvanized steel cover, Style "D." Price per square ft	.12
19-A-75.	Galvanized steel cover, Style "E." Price per square ft	.12

Style "B"

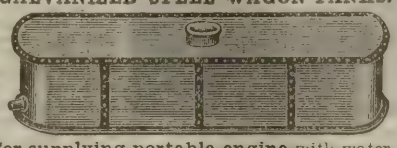
"PREMIER" STEEL THRESHER TANKS.



Made of 20 gauge galvanized steel but can make them up in 18 gauge steel at an additional cost of 20% to prices given below. This is the only tank made with truss support to support it and its contents on a farm wagon bolster. The seams are all soldered inside of tank and we do not use packing to make the seams watertight. The truss support is made of heavy angle iron and in a manner which places the strength at points where most needed. All joints are thoroughly riveted and made of heavy enough metal to guarantee strength beyond actual requirements. The plan of the truss is such as to take the weight of the tank at four different bearings, thus distributing the weight of the tank and its contents at widely separated points. This feature of the truss construction adds largely to the strength of the body of tank; in other words the tank rests on four bearings instead of on the bolsters only. We extend a metal side board 5 inches high clear around the top of the tank and top it with 1 inch angle iron to make it rigid. This makes a deck on top of the tank that may be used for fuel, tools, etc. The top of the deck is divided into two parts. The first part is planked and used for fuel box, a shovel board is provided at front end to make the handling of fuel easy. Back of the partition is a 14 inch round manhole with a flange 5 inches high and a tight fitting cover. Across the top of the tank at rear side of manhole is a plank bolted at each end to attach tank pump for filling tank. In the bottom between the front and rear truss we place a 1-inch connection for feed pipe or hose to the engine. The slush board is bolted or riveted to a fastening provided inside of the tank to the side walls, serving to support the tank against outward pressure. Our bulkheads are stationary. These tanks will fit any old farm wagon bolster, narrow or wide track. For wide track, or 42 inch bolster we bolt a 2x4 piece of wood on each side of truss, front and rear, which makes a close fit. Prices on tank complete with truss support and fuel box, planked and pump board attached.

No.	Length Ft.	Width In.	Height In.	Capac. Bbls.	Weight Lbs.	Price.
19-A-94	8	38	24	9½	350	$19.50
19-A-95	10	38	24	12	375	21.75
19-A-96	10	38	28	15	400	22.95

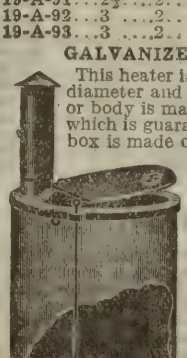
GALVANIZED STEEL WAGON TANKS.



For supplying portable engine with water, for gathering maple sap and for hauling away from creameries liquids, manure, etc. The top or cover is made of galvanized steel and the tanks are made of No. 20 gauge galvanized steel. The sides and bottoms are flanged together and riveted between two strips of 1x⅛ in. metal, the rivets being placed only 3 in. apart. The top is fastened to the tank by flanging the sides and top together and riveted or bolted between 1x1⅛ in. metal. In the center of the top there is a 14 in. round manhole with 3 in. flange extending upward with tight fitting cover. This tank is strongly braced and all sizes 6 in. or longer have one bulkhead in center of tank riveted or bolted to the sides which serves to break the force of the water and at the same time to support the tank against outward pressure. One inch pipe or hose connection is placed close to the bottom in rear end. Tank is made of 20 gauge galvanized steel but we can make them up in 18 gauge steel at an additional cost of 20% to the prices below quoted. Shipped from factory, northern Indiana, and prices are F. O. B. cars that point.

No.	Width Feet	Height Feet	Length Feet	Cap. Bbls.	Weight Lbs.	Price Each
19-A-89	2	2	6	5½	120	$ 7.50
19-A-90	2	2	6	7½	155	9.50
19-A-91	2½	2	8	9½	168	10.75
19-A-92	3	2	8	12	191	12.50
19-A-93	3	2	10	14	236	14.25

GALVANIZED TANK HEATERS.



This heater is 24 in. high, fire box is 12 in. in diameter and 20 in. long. The outside wall or body is made of heavy galvanized steel which is guaranteed not to rust. The fire box is made of No. 20 gauge annealed steel and extends from grate to top of outside casing. 4 in. from the bottom is placed a cast iron grate. This grate is so constructed by a blank space of almost one-half the surface of it, that in using wood for fuel the embers cannot all drop through and causes the fire to go out easily, but it will hold fire equal to any stove made. Is fitted with a dumping grate and fire box and ashes can be removed without taking tank heater out of tank. A galvanized pipe with damper regulator furnished, fitted with a hood as a shelter from rain. Weighs about 40 lbs. Shipped from factory, northern Indiana, and price quoted is F. O. B. at that point.

No. 19-A-88. Price each $2.25

CYPRESS STOCK AND STORAGE TANKS.

These tanks are made of Louisiana cypress and are free from unsound sap and unsound knots. The material is in every sense strictly first-class and suitable for tank purposes.

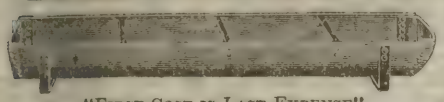
Prices quoted are for tanks made of 1½ in. cypress. We can furnish them made of 2 in. cypress, price of which would be 40% higher than quoted below. We recommend all tanks that are larger than 6 ft. in diameter be built of 2 in. stock.

The 1½ in. stock is dressed to 1⅜ in. thick and 2 in. stock is dressed to 1⅞ in. thick. Tanks are shipped from factory located near Chicago. Shipped knocked down.

No.	Diam. In.	Length of Staves Feet	Number of Hoops	Capacity Gallons	Weight Lbs.	Price Each
19-A-109	4	2	2	176	200	$ 5.50
19-A-110	4	4	4	284	300	9.70
19-A-111	5	2	2	200	225	7.30
19-A-112	6	2	2	315	285	9.25
19-A-113	6	2½	2	410	340	10.50
19-A-114	7	2	2	441	375	10.75
19-A-115	7	2½	2	535	475	12.95
19-A-116	8	2	2	567	455	13.45
19-A-117	5	5	4	600	550	14.50
19-A-118	8	2½	2	788	480	15.70
19-A-119	10	2	2	872	600	19.25
19-A-120	10	2½	2	1165	700	21.25
19-A-121	6	6	4	1100	700	20.50
19-A-122	6	8	5	1445	855	26.00
19-A-123	8	6	4	1966	950	29.50
19-A-124	8	8	6	2645	1150	36.50
19-A-125	10	10	8	5300	1375	55.40
19-A-126	12	10	8	7718	1750	70.00
19-A-127	12	12	10	8850	2000	85.00

Hercules Steel Hog and Cattle Trough.

HERCULES BOILER STEEL TROUGHS.



"First Cost is Last Expense"

Here is the best, strongest and most durable trough ever made. Economical, easily cleaned, sanitary, won't chill warm feed, will last a lifetime. Body and ends made of ⅛ inch heavy boiler steel. Rivets are 5-16 inch diameter—spaced one inch apart. Legs and crossbars are heavy one inch bar steel.

This line shows thickness of iron used in ordinary sheet iron troughs.

This line shows thickness of Boiler Steel used in BOILER STEEL HOG TROUGHS.

You can now appreciate the value that we offer you in Boiler Steel Troughs, made from this heavy material, "so strong that no animal can break or injure," hence "will last you a life-time" and that you can chop out the ice from in winter without injuring trough.

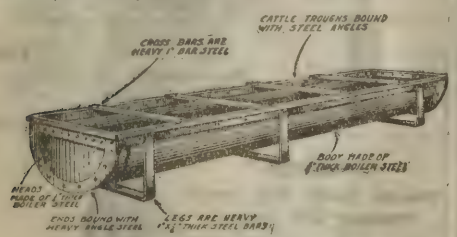
FOR HOGS

No.	Width Inch.	Depth Inch.	Length Feet.	Weight Lbs.	Price
19-A-129	13	7	3	30	$1.95
19-A-130	13	7	5	40	2.40
19-A-131	13	7	6	46	3.05
19-A-132	13	7	7	54	3.75
19-A-133	13	7	8	60	4.30
19-A-134	13	7	10	75	4.85

FOR PIGS, POULTRY AND FARROWING

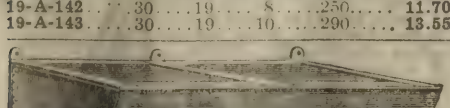
No.	Width Inch.	Depth Inch.	Length Feet	Weight Lbs.	Price
No.-A-160	10	5	2	12	$1.20
No.-A-161	10	5	3	17	1.40
No.-A-162	10	5	5	28	1.80

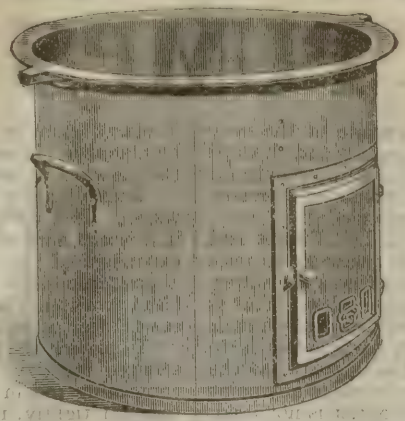
HERCULES BOILER STEEL TROUGHS FOR SHEEP, HORSES AND CATTLE.


CATTLE TROUGHS BOUND WITH STEEL ANGLES
CROSS BARS ARE HEAVY 1" BAR STEEL
BODY MADE OF ¼ INCH BOILER STEEL
HEADS MADE OF ¼ INCH BOILER STEEL
ENDS BOUND WITH HEAVY ANGLE IRON
LEGS ARE HEAVY 1" BAR STEEL

SPECIAL SIZES MADE TO ORDER.

No.	Width Inch.	Depth Inch.	Length Feet.	Weight Lbs.	Price.
19-A-135	19	9	5	65	$ 4.80
19-A-136	19	9	8	95	6.25
19-A-137	19	9	10	115	7.45
19-A-138	24	14	5	125	7.10
19-A-139	24	14	8	180	9.25
19-A-140	24	14	10	210	10.70
19-A-141	30	19	5	180	9.20
19-A-142	30	19	8	250	11.70
19-A-143	30	19	10	290	13.55





FARMERS' STOCK FEED COOKERS.

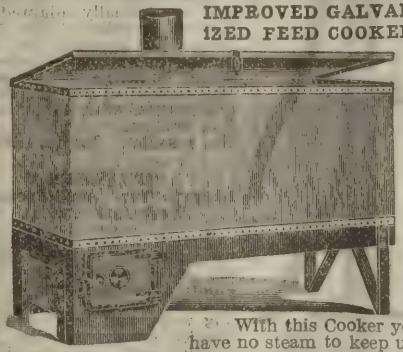
This is a very popular cooker with stock men. It is very durable, the jacket being made of extra heavy steel and the kettle is made of the very best quality of gray cast iron and can readily be removed from the casing. The interior arrangement is made so that the fire and smoke passes around the kettle before going into the smoke stack, thus bringing the entire bottom of the kettle in contact with the fire, making it possible to boil the contents much quicker than you could with other similar styles of cookers. Guaranteed to hold the actual number of gallons as specified. The fire door is large so as to permit burning large pieces of wood. We furnish grates for these cookers suitable for wood or cobs; if desired we can furnish coal grates at an additional charge. Prices on complete cookers include elbow and one joint of 6 inch pipe with damper. Shipped from factory at Southern Michigan and prices are F. O. B. at that point.

No.	Size Actual Cap.	Diam. In. Kettle Inside Flange	Depth In. Kettle	Price Com. Cooker Without Cover	Extra Charge for Cover	Price Kettle Only	Weight Complete Lbs.
19-A-76	15	20	13½	$ 4.45	$0.50	$1.95	105
19-A-77	20	23	15	5.70	.50	2.40	120
19-A-78	30	27	16	6.75	.50	3.30	175
19-A-79	40	29	18½	8.25	.55	4.20	225
19-A-80	55	32	21	9.80	.55	5.50	250
19-A-81	65	34	21	10.80	.60	6.30	275
19-A-82	75	36	22	11.95	.60	7.60	300

COAL GRATES FOR FARMERS' STOCK FEED COOKERS.

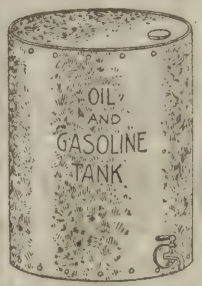
For use where coal is used as fuel. These are shipped from factory, Southern Michigan and price is F. O. B. cars at that point. **No. 19-A-83.** Price each.....$1.65

IMPROVED GALVANIZED FEED COOKER.



With this Cooker you have no steam to keep up, no water to be taken out at night to prevent the boiler from freezing and bursting, furnace and fire flue under the boiler is heavy sheet steel. The fire box has a heavy cast iron grate and back wall. The fuel door and opening in ash pit are cast iron and as now improved the ash pit has a bottom and every joint of the furnace is tight and fire-proof, so it is safe to set in a building if desired. The furnace is made of 14 gauge steel and anyone knowing the difference between steel and cast iron knows the steel will withstand four times the heat that the cast iron will. The fire box being crosswise gives it full length of the width of the boiler. The flue under boiler extends full length of boiler and is provided with a partition for the purpose of carrying heat to the rear end and then returning it on opposite side back to edge of fire box and on backside of the boiler where it enters the smoke pipe. The boiler or pan is No. 18 gauge steel. Cover is made of No. 20 gauge steel hinged to one side of the boiler and flanged downward, making it steam retaining. The grate is made especially for coal, wood or cobs and a surprisingly small amount of fuel is required. Can be used for boiling sorghum, sap and water. Shipped from factory, northern Indiana, and prices given below are F. O. B. at that point.

No.	Lgth.	Wth. In.	Dth. In.	Wgt. Lbs.	Cap. Gal.	Price
19-A-84	6	28	18	290	160	$13.00
19-A-85	5	24	18	220	115	11.25
19-A-86	4	24	18	200	90	9.65
19-A-87	4	24	12	175	60	9.10



OIL AND GASOLINE TANKS.

Made of No. 20 gauge galvanized steel, is very strong and durable and will stand much hard usage. These tanks are fitted with a screw cap opening in top to fill by and faucet in side near bottom to draw off contents. Prices given below are F. O. B. cars factory, Northern Indiana.

No.	Inside Diam. Inches	Height Inches	Capacity Gallons	Price Each
19-A- 97	18	30	32	$ 3.00
19-A- 98	24	40	58	3.60
19-A- 99	24	36	70	4.60
19-A-100	34	30	117	5.50
19-A-101	34	36	140	6.00
19-A-102	34	42	165	7.25
19-A-103	34	48	185	8.00
19-A-104	40	42	225	9.00
19-A-105	40	48	260	10.00

"PREMIER" OIL TANKS.

These tanks are made of No. 26 gauge galvanized iron, body and bottom, with wood bottom under metal, tin hood, portable and steady stream pump which can be taken out of the tank and used for pumping kerosene from barrel into tank. All tanks are neatly painted and lettered.

No.	Capacity Gallons	Weight Crated	Price Each
19-A-106.	30	35	$3.00
19-A-107.	60	50	3.50
19-A-108.	110	65	5.75

HERCULES BARN TROUGHS.

Body and end made of ⅛-inch Boiler Steel, with angles at front of top and crossbars, placed 1 foot apart. Back of trough is flat and fitted with lugs so can be bolted to wall or fences. Can be directly connected with water supply.

	No. 19-A-144	No. 19-A-145	No. 19-A-146	No. 19-A-147	No. 19-A-148	No. 19-A-149	No. 19-A-150	No. 19-A-151	No. 19-A-152	No. 19-A-153	No. 19-A-154	No. 19-A-155	No. 19-A-156	No. 19-A-157	No. 19-A-158	No. 19-A-159
Width at top, inches	14	14	14	14	14	14	14	14	18	18	18	18	18	18	18	18
Depth, inches	12	12	12	12	12	12	12	12	14	14	14	14	14	14	14	14
Length, feet	2	4	5	6	8	10	12	16	2	4	5	6	8	10	12	16
Weight, pounds	35	56	67	80	104	130	156	210	42	70	85	100	135	170	200	265
Price	$1.95	$3.80	$4.65	$5.10	$6.80	$8.50	$10.10	$13.20	$2.20	$4.00	$4.85	$5.70	$7.60	$9.50	$11.40	$14.90

GUARANTEE: Every Hercules Tank and Trough is warranted to be exactly as we represent and all we claim, and satisfactory to you, or your money refunded.

PUMPS

We guarantee that every pump we describe is made of the very best material, every casting being absolutely perfect and finished in the best possible manner. If any pump that may be purchased from us is not found to be entirely satisfactory and as we represent in every particular, it may be returned at our expense.

Pumps are divided into two classes; that is, Lift Pumps and Force Pumps. The lift pump is used where it is necessary to raise water to a spout only. The force pump lifts and forces the water, making it possible to deliver water about your premises. This is accomplished either through the spout or the back outlet, which is located directly opposite the spout. Where the back outlet is to be used, it is necessary that the pump has a cock spout, so the water can be shut off at the spout when it is being forced to any point beyond through the back outlet. If the back outlet is not used, the water can be forced beyond from the spout.

The limit for raising water vertically by suction is 30 feet. We recommend, however, that when a first class job is required that the cylinder be placed within 25 feet of the water. As a matter of fact you will get better service out of any pump if the cylinder is placed close to the water. It is even better that the cylinder be placed in the water whenever it is convenient to do so, as it will then always be primed by immersion.

Before placing a pump in the well, put the cylinder in a pail of water. This will expand the buckets. Do not condemn a pump if it works hard and stiff at first. This is due to the thickness and expansion of the leather. The pumps are fitted snug, making it almost impossible to adjust them right at the factory and have them work easy when first put in. The pump will always work easier after a few days' use.

In placing the pump in well, be careful to see that the joints are screwed together snugly. Great care should be taken that the connecting rod in deep well pumps be well threaded and screwed together tightly, making good strong joints. Fasten the pump to platform with wood screws. Always suspend the pump from platform. Do not allow it to rest on the bottom of well.

To prime pump, hold a pail of water to the spout and work handle rapidly and it will prime itself.

PITCHER SPOUT PUMPS.

Each pump is perfectly bored and polished. They are recommended for wells not deeper than 20 ft. These pumps are made with a revolving cap and closed top. Handle can be placed on either side of the pump. To prevent freezing, trip valves by raising handle to extreme height.

No. 4-A-252. Size No. 1, 2½ in. iron cylinder fitted for 1¼ in. pipe. Price..... **$0.85**

No. 4-A-253. Size No. 1, 2½ in. brass lined cylinder fitted for 1¼ in. pipe. Price..... **1.65**

No. 4-A-254. Size No. 2, 3 in. iron cylinder fitted for 1¼ in. pipe. Price..... **1.06**

No. 4-A-254½. Size No. 2, 3 in. brass lined cylinder fitted for 1¼ in. pipe. Price..... **1.80**

No. 4-A-255. Size No. 4, 4 in. iron cylinder fitted for 1¼ in. pipe. Price..... **1.42**

No. 4-A-256. Size No. 4, 4 in. brass lined cylinder fitted for 1¼ in. pipe. Price..... **2.40**

KITCHEN FORCE PUMPS.

Beautiful in Design and as Efficient as It Is Ornamental.

Can be used where water is to be supplied from spout or forced from back outlet to any height above. This pump can also be used on drive wells or as a spray pump. It is very powerful and will maintain a high pressure, as the air chamber is large. We recommend that this pump be used where the depth of well does not exceed 25 ft. The body of this pump is made of seamless polished brass tubing. Back outlets are fitted for 1 in. pipe.

No. 4-A-257. Size No. 1, 2½ in. cylinder fitted for 1¼ in. pipe. Price..... **$3.80**

No. 4-A-258. Size No. 2, 3 in. cylinder fitted for 1¼ in. pipe. Price..... **4.00**

Scientific Construction in the hands of skilled workmen enables us to give you that distinctive grade of quality impossible to obtain elsewhere.

LEADER.

Anti-Freezing Set Length Pump with Revolving Top.

The greatest pump bargain ever offered.

Has regular 4 foot set length and is especially adapted for cisterns or wells not over 25 ft deep. By lowering the cylinder within 10 feet of the water it may be used in deeper wells. This pump has a 6 in. stroke and is fitted with 3 in. x 10 in. iron cylinder.

No. 4-A-259. Price.....**$2.50**

"PREMIER."

Closed Top Anti-Freezing Well Lift Pump.

This is a heavy pump and we guarantee it unconditionally as the best 6 in. stroke lift pump manufactured. It is intended for deep, drilled and dug wells, and is also recommended for drive wells. The handles and top are interchangeable and the cylinders are heavy, full length. The pumps are furnished with set lengths as shown in illustration and measure 4 ft. from base to bottom of cylinder.

This pump will give perfect satisfaction in wells up to 90 ft. deep. Where it is used in wells of over 30 ft. deep the cylinder must be placed within 10 ft. of the water. We recommend the use of brass body cylinders, inasmuch as they are not affected by the water as is an iron cylinder, and they last much longer.

No. 4-A-259.

When the pumps are used in deep wells, and extra pump rod is required, we charge 5 cents a foot for the rod and couplings necessary to extend the cylinder. This charge, however, does not include extra pipe that will be necessary.

No. 4-A-260. 3 in. x10 in. iron cylinder fitted for 1¼ in. pipe. Price....**$3.30**

No. 4-A-261. 3½ in. x10 in. iron cylinder fitted for 1¼ in. pipe. Price..... **3.60**

No. 4-A-262. 3 in. x10 in. brass body cylinder fitted for 1¼ in. pipe. Price..... **4.80**

No. 4-A-263. 3½ in. x10 in. brass body cylinder fitted for 1¼ in. pipe. Price..... **5.10**

"PERFECTION."

Anti-Freezing Lift Pump.

They are furnished, as shown in illustration, with 4 foot set length 6 in. stroke. Length of cylinder 10 in. They are adapted to cisterns or any kind of a well not over 30 ft. deep, but by lowering the cylinder they may be used for wells 75 ft. to 100 ft. deep. We recommend that cylinder be placed not over 15 ft. above the water.

No. 4-A-267. 2½ in. x 10 in. iron cylinder fitted for 1¼ in. pipe. Price..... **$2.75**

No. 4-A-268. 3 in. x 10 in. iron cylinder fitted for 1¼ in. pipe. Price..... **2.85**

No. 4-A-269. 3½ in. x 10 in. iron cylinder fitted for 1¼ in. pipe. Price..... **3.25**

No. 4-A-270. 2½ in. x 10 in. brass body cylinder fitted for 1¼ in. pipe. Price..... **4.25**

No. 4-A-271. 3 in. x 10 in. brass body cylinder fitted for 1¼ in. pipe. Price..... **4.35**

No. 4-A-272. 3½ in. x 10 in. brass body cylinder fitted for 1¼ in. pipe. Price..... **4.75**

"PREMIER."

Heavy Swell Top Anti-Freezing Lift Pump.

6 in. stroke. Furnished as shown in illustration with 4 foot set length. This pump may be used in wells 100 ft. or more in depth, providing the cylinder is placed near the water. It is especially intended for farmers' and dairymen's use, where large quantities of water must be had quickly for watering stock.

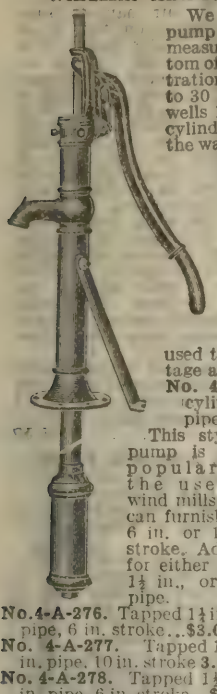
Spout has 1¼ in. outlet and is substantially built and works very easily. Where it is necessary to extend the cylinder, we will furnish necessary pump rod and couplings at 5 cents per foot. Price, however, does not include additional pipe that will be required.

No. 4-A-273. 3½ in. x10 in. iron cylinder fitted for 4½ in. pipe. Price **$4.40**

No. 4-A-274. 4 in. x 10 in. iron cylinder fitted for 2 in. pipe.

Price..... **5.50**

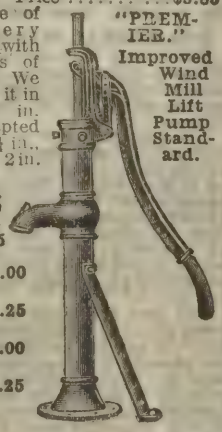
"PREMIER." Windmill Anti-Freezing Lift Pump.



We show here a set length pump with 6 in. stroke. Set length measures 4 ft. from base to bottom of cylinder. As shown in illustration are suitable for wells up to 30 ft. deep. Can be used in wells 100 ft. deep by placing the cylinder within 15 ft. or 20 ft. of the water. Where it is necessary to extend the cylinder, we will furnish the necessary pump rod and couplings at 5 cents per foot. This price does not include the necessary pipe.

These pumps are especially desirable where a wind mill is used and the water supply is not to be forced beyond the pump. Can also be used to equally as good advantage as an ordinary hand pump.

No. 4-A-275. 3x10 in. iron cylinder fitted for 1¼ in. pipe. Price **$3.85**



"PREMIER." Improved Wind Mill Lift Pump Standard.

This style of pump is very popular with the users of wind mills. We can furnish it in 6 in. or 10 in. stroke. Adapted for either 1¼ in., 1½ in., or 2 in. pipe.

No. 4-A-276. Tapped 1¼ in. pipe, 6 in. stroke... **$3.00**
No. 4-A-277. Tapped 1¼ in. pipe, 10 in. stroke **3.25**
No. 4-A-278. Tapped 1½ in. pipe, 6 in. stroke **$3.00**
No. 4-A-279. Tapped 1½ in. pipe, 10 in. stroke **3.25**
No. 4-A-280. Tapped 2 in. pipe, 6 in. stroke. **3.00**
No. 4-A-288. Tapped 2 in. pipe, 10 in. stroke **3.25**

"PREMIER." Heavy Wind Mill Force Pump Standard.

Furnished without cylinder as shown in illustration. These pumps are suitable for deep or shallow wells and can be furnished with the plain or cock spouts. Where the cock spouts are required there will be an additional charge of 75 cents.

These pumps have an outlet at the back for 1 in. pipe. The stocks are tapped just under the spout. The tube in air chamber is large and will not allow water to freeze around the rod. Prices do not include pipe, cylinder or pump rod.

No. 4-A-282. Tapped 1¼ in. pipe, 6 in. stroke **$3.65**
No. 4-A-283. Tapped 2 in. pipe, 10 in. stroke **$4.00**

"PREMIER." Wind Mill Force Pump.

Same as **No. 4-A-288.**
No. 4-A-292. 3x10 in. iron cylinder fitted for 1¼ in. pipe..... **$6.25**
No. 4-A-293. 3½x10 in. iron cylinder fitted for 1¼ in. pipe **$6.50**
No. 4-A-294. 3x10 in. brass body cylinder fitted for 1¼ in. pipe..... **7.75**
No. 4-A-295. 3½x10 in. brass body cylinder for 1¼ in. pipe **8.00**

DOUBLE ACTING THREE-WAY FORCE PUMP.

While this pump is fitted with wind mill head, it can be used as a hand power pump as well. It is the best designed and constructed pump on the market.

Pumps are fitted with 3-wing bronze valve, and can be used in wells of any depth. Water can be forced under ground to tanks, troughs, reservoirs, etc., through the 3-way outlet, which is located 3 feet below the platform. The size of this outlet is 1 inch. The pump is fitted with a shut-off valve at spout, which when closed, the water can then be forced through the underground outlet. These pumps are supplied with two cylinders. The downward stroke of handle causes one-half of the water in cylinder to discharge, the other half being discharged by the upward stroke, thus creating a steady flow of water from the spout, which is fitted with hose connection.

No. 4-A-296. Size lower cylinder 2½x10 in. fitted for 1¼ in. pipe. **$9.25**

No. 4-A-297. Size lower cylinder 3x10 in. fitted for 1¼ in. pipe. **9.50**

No. 4-A-298. Size lower cylinder 3½x10 in. for 1¼ in. pipe. **9.65**

"PREMIER." Double Acting Hand Force Pump with Revolving Spout; Anti-Freezing for Deep or Shallow Wells.

These pumps are heavy and reinforced throughout. The well end, or part below the base will enter 5⅛ in. inside diameter casing. The base and brace collar are adjustable and can be placed in any desirable position. Plunger in the upper cylinder is double crimped packed. Lower cylinder has heavy brass body and furnished with an improved 3-wing bronze poppet valve. Each pump is guaranteed unconditionally. Hose connection and strainer is furnished with each pump.

No. 4-A-284. Size lower cylinder 3x10 in., 6 in. stroke fitted for 1¼ in. pipe.. **$8.65**

"PREMIER," Tubular Well Three-Way Pump.

No. 4-A-284.

For hand or wind power. This pump is anti-freezing and has revolving spout. Arranged for 2 in. tubular wells. Bottom of working head is tapped for 2 in. iron pipe and connection is made for wood rod. By unbolting upper cylinder, 2 in. valve may be drawn through the entire pump for repairs. The upper cylinder is regularly furnished. 1 in. Cylinder is not improved at price quoted on this pump.

We guarantee this to be unconditionally the best constructed tubular well pump on the market. Hose connection is furnished with each pump.

No. 4-A-284½. Fitted with 2 in. pipe, 6 in. stroke and upper cylinder..... **$7.50**

No. 4-A-285. Fitted with 2 in. pipe, 10 in. stroke and upper cylinder..... **8.00**

"PREMIER." Heavy Anti-Freezing Well Force Pumps.

With 4 ft. set length and 6 in. stroke. Fitted with back outlet for 1 in. pipe. We furnish this pump with either a plain or cock spout. If cock spout is required, there will be an extra charge as noted below. The purpose of this cock spout is that the water may be shut off at the spout, providing you wish to use the back outlet and force water to any point beyond the pump. Both styles of spout are furnished with hose connection.

We wish to call your particular attention to the heavy construction of this pump. The fulcrum is high and strong and is fastened to the standard with hoop bolts. Handle may be placed on either side or directly over spout if desired. A thumb screw is provided for releasing air when pump is used as a lift only. This pump may be used in wells 200 feet deep by lowering the cylinder within 15 feet of the water. Where the cylinder is to be extended we will furnish the necessary pump rod and couplings at 5 cents per foot additional. This price does not include pipe that may be necessary.

No. 4-A-288. 3x10 in. iron cylinder fitted for 1¼ in. pipe. Price..... **$5.25**
No. 4-A-289. 3½x10 in. iron cylinder fitted for 1¼ in. pipe. Price..... **5.35**
No. 4-A-290. 3x10 in. brass body cylinder fitted for 1¼ in. pipe. Price..... **6.75**
No. 4-A-291. 3½x10 in. brass body cylinder fitted for 1¼ in. pipe. Price..... **6.85**

If cock spout is required, add 75 cents.

AUTOMATIC REGULATING FORCE PUMP.

Fig. XX. Do you want a pump that will pull your mill out of gear when the tanks are full and hold it there until the water has been lowered five inches or more? No matter the time of day or where you may be our Fig. XX will do this. It is the finest pump of this kind made today. Perfectly reliable, strong and durable. The air chamber is 1¼ inch pipe and the discharge 1 inch. The hydraulic cylinder, which is shown in the cut projecting below the bottom casting, is of seamless 12 gauge brass tubing and has a brass cage plunger, specially constructed, working in it. The horizontal all-brass check valve on the right is fitted with special rubber seat, insuring it to hold all back pressure from supply tanks. The regulating weight, which weighs 25 lbs. is near the platform, where it is easily adjusted. The tension spring and swivel are safe-guards in case of severe winds. The bottom flange which bolts on to the heavy bottom casting can be tapped for 1¼, 1½ or 2 inch pipe. This pump is built only in the adjustable stroke and is single acting. The piston rods are all brass covered and the packing nuts good and heavy. Be sure and anchor this pump securely to the platform or clamp it to the well casing where you have a drilled well. Price below does not include a pumping cylinder, pipe, rods or float pan and valve. The pumping cylinder should be at least 14 in. long and if inside capped should be 16 in. long.

This is the pump we use in our AP30 air pressure outfits. In the air pressure outfits we use a pump with a 3 inch hydraulic cylinder, tapped for a direct back pressure connection around the check valves. The weight on the handle is adjustable and when you have this coupled up, by adjusting the weight you can arrange it so that the weight will be forced up and the mill thrown out of gear at 60 lbs. pressure, and then when the pressure drops down to 40 or 45 lbs. the weight is heavy enough to throw the mill back into gear automatically and the mill will start pumping again.

This same pump can be used with a gasoline engine connected to the switch of the electric sparker and so automatically stop the engine working when the pressure in the tank has reached the desired figure, say 60 lbs. Weight 165 lbs.

No. 4-A-286. 2½ in. hydraulic cylinder... **$21.00**
No. 4-A-287. 3 in. hydraulic cylinder **23.00**

DOUBLE ACTING FORCE PUMPS.

With Brass Lined Cylinder.

These pumps are of the same general construction as No. 4-A-296, with the exception that they do not have the 3-way underground outlet.

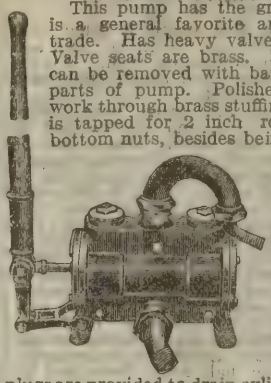
No. 4-A-299. 2½ inches x 10 inches lower cylinder for 1¼ inch pipe. Price..... **$7.75**

No. 4-A-300. 3 inches x 10 inches lower cylinder fitted for 1¼ inch pipe. Price **8.00**

No. 4-A-301. 3½ inches x 10 inches cylinder fitted for 1¼ inch pipe **8.25**

"PREMIER."

Double Acting Thresher Tank Pump, 5 Inch Cylinder, 5 Inch Stroke.



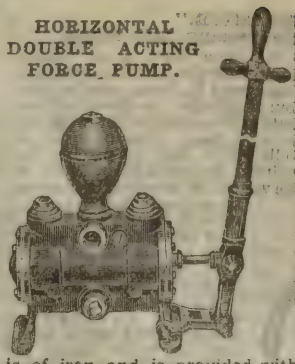
This pump has the greatest capacity and is a general favorite among the threshing trade. Has heavy valve faced with leather. Valve seats are brass. Top plugs and nuts can be removed with bar to expose working parts of pump. Polished steel piston rods work through brass stuffing nut. Each pump is tapped for 2 inch iron pipe at top and bottom nuts, besides being fitted for hose as shown. Loose at top, fitted with a hose connection for 1 inch hose.

We guarantee the largest capacity of any similar pump made, same being over 2 barrels per minute. This pump is used largely for filling tanks and can also be used for fire protection. Drip plugs are provided to drain cylinder in cold weather. Pump is furnished complete with handle and strainer.

No. 4-A-307. Price..... **$5.25**

No. 4-A-308. 5 inches crimped plunger leathers for tank pump. Price per set..... **.55**

HORIZONTAL DOUBLE ACTING FORCE PUMP.



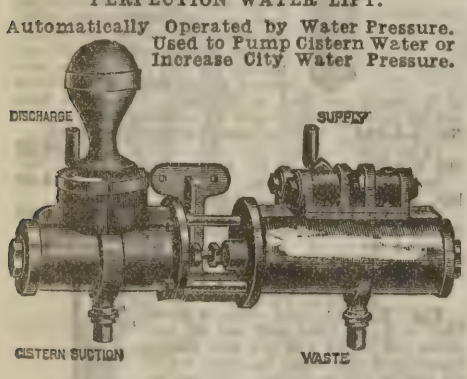
Furnished with brass lined cylinder, cushioned air chamber, brass piston rod, brass valve seats. This pump has no superior for the purpose for which it is designed. It is especially adapted for elevating water to upper parts of buildings, for use in shallow wells, cisterns and for other general purposes. It is double acting and has a capacity of about 300 gallons per hour. The handle is of iron, and is provided with convenient hand holds. Cylinder heads being removable, allow easy access to the plunger.

Thumb screws are furnished for vents of both upper and lower chambers which are used to prevent freezing. Pump is tapped on either side for 1¼ inch suction and 1 inch discharge pipe.

No. 4-A-302. Price each..... **$8.50**

PERFECTION WATER LIFT.

Automatically Operated by Water Pressure. Used to Pump Cistern Water or Increase City Water Pressure.



Can be connected into your house supply pipe and then all city water drawn through your faucets will operate this pump and cause it to pump cistern water into an attic tank.

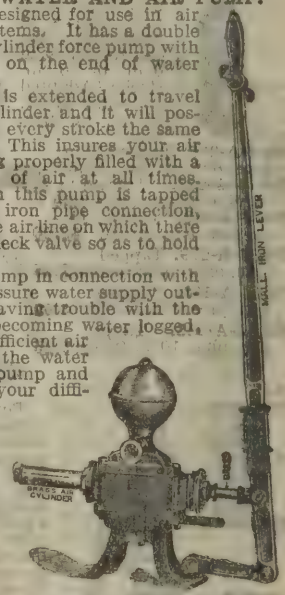
The strongest, best constructed and most durable Water Lift made. An iron pump, brass lined throughout. Valves hold tight, will not cut; require no oiling. Few parts, and all parts easy of access. No inside stuffing nuts, springs or packing. No water need be wasted. This is a water lift that you can depend upon. Satisfactory operation and durability guaranteed. The knowledge gained by 25 years' experience in pump building enters into the construction of this pump.

We will furnish full instructions for installing these Automatic Lifts. The different sizes are adapted to different pressures. Dimensions—Length 23 inches. Height 11 inches. Weight 50 pounds.

DIAMETER OF CYLINDERS

Catalog Nos.	Size of Lift	Power Pump	Supply Pipe	Exhaust Pipe	Suction Pipe	Delivery Pipe	Gals. per hour pumped	Gals. City Water Used	Price
No. 4-A-136..	No. 1	3 inch	3 inch	¾ inch	¾ inch	1 inch	¾ inch	293	296	$35.00
No. 4-A-137..	No. 2	3 inch	2½ inch	¾ inch	¾ inch	1 inch	¾ inch	214	296	35.00
No. 4-A-138..	No. 3	3 inch	2 inch	¾ inch	¾ inch	1 inch	¾ inch	129	296	35.00
No. 4-A-139..	No. 4	2½ inch	3 inch	¾ inch	¾ inch	1 inch	¾ inch	293	217	35.00
No. 4-A-140..	No. 5	4½ inch	3 inch	¾ inch	¾ inch	1 inch	¾ inch	293	431	65.00

HORIZONTAL WATER AND AIR PUMP.



This pump is designed for use in air pressure water systems. It has a double acting horizontal cylinder force pump with air chamber built on the end of water cylinder.

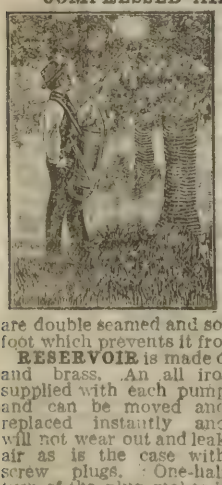
The piston rod is extended to travel through the air cylinder and it will positively pump air at every stroke the same as it does water. This insures your air pressure tank being properly filled with a proper proportion of air at all times. The air cylinder in this pump is tapped to receive ¼ inch iron pipe connection, which is used as the air line on which there must be a ¼ inch check valve so as to hold the air.

We show this pump in connection with some of our air pressure water supply outfits. If you are having trouble with the air pressure tank becoming water logged, and not having sufficient air cushion to deliver the water properly use this pump and it will overcome your difficulties.

No. 4-A-303. 2½ inch brass lined cylinder. Price each.... **$12.50**

No. 4-A-304. 3 inches brass lined cylinder. Price, each.... **$14.00**

COMPRESSED AIR SPRAY PUMPS.



We guarantee these spray pumps to be the strongest and best constructed, to last longer and to do all that we represent and to give perfect satisfaction when directions for operating are followed. Any pump that fails to give perfect satisfaction, or is not strictly in accordance with our guarantee, can be returned at our expense.

MATERIAL is extra heavy, back seam is riveted close and soldered. Top and bottom are double seamed and soldered. Bottom has a small foot which prevents it from touching the ground.

RESERVOIR is made of the best galvanized steel and brass. An all iron air tight filler plug is supplied with each pump and can be moved and replaced instantly and will not wear out and leak air as is the case with screw plugs. One-half turn of the plug makes it air tight.

PUMP—It is fitted with a 12x1½ inch seamless drawn brass cylinder pump, all strongly attached to the reservoir at an angle which allows pumping when you wish to recharge with air without removing from body. Pump is connected at the bottom of reservoir with an air tube and valve so that each stroke of the pump forces air in at side of bottom thoroughly agitating the spraying mixture. The pump has a screw cap top and bottom which is easily removed in case you wish to get at valves. You no doubt will realize that a pump fitted on the inside of the reservoir that has to be removed every time you wish to put solution in reservoir, the valves being in constant contact with the solution, will not give the satisfaction that this pump will.

NOZZLE—Each pump is furnished with a special size single VERMOREL nozzle fitted with two caps for making fine and coarse sprays. One cap will make a mist for spraying purposes or where an extra fine mist is required. The caps to make fine or mist spray can be removed or replaced in one minute. In case it should clog, simply touch a thumb screw on the end of the nozzle and it will be free and working again.

SAFETY VALVE—It has a fine steel spring brass safety valve, adjusted by set screw which blows off. These machines are made so strong the valve is superfluous but is fitted on them to avoid any chance of a blow up.

STOP COCK—An all brass stop cock fits closely at the bottom which can be turned off and on as desired. The hose is clamped to same which allows the solution to be forced out.

HOSE—Three feet of the very best ¼ inch spray hose is furnished with each outfit.

SHIELD—An oval galvanized iron shield is attached to back, made to fit body and acts as a brace to prevent its slipping around on body.

BELT—Nicely constructed belt to strap sprayer to body is furnished with each sprayer.

WHAT IT IS USED FOR—Spraying trees, almost any height, spraying flowers, potato vines, cotton, tobacco and nursery stock. For spraying lice killer and fly remover on stock and liquid disinfectants in vaults and elsewhere where disinfectants are used. For whitewashing poultry houses, barns, fences, etc.

Full directions and spraying calendar are furnished with each spray giving full directions for use and telling when to spray, and what to use.

No. 4-A-1424 Size No. 15—4 gallon galvanized steel compressed air sprayer, complete.. **$5.00**

No. 4-A-1425 Size No. 16—4 gallon heavy brass compressed air sprayer, complete, **7.00**

No. 4-A-1426 Size No. 17—5 gallon galvanized steel compressed air sprayer, complete, **5.50**

No. 4-A-1427 Size No. 18—5 gallon heavy brass compressed air sprayer, complete, **8.00**

No. 4-A-1428 Extra hose, per ft..... **.08**

No. 4-A-1429 Single **Vermorel** nozzle, **.75**

No. 4-A-1430 Double **Vermorel** nozzle, **1.25**

SPRAY PUMP IRON EXTENSION RODS TO ELEVATE SPRAY.

No. 4-A-1431 4 ft. pipe extensions.. **$0.40**

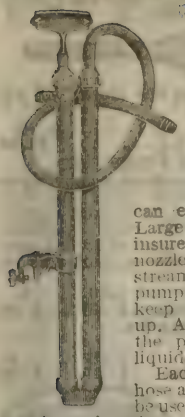
No. 4-A-1432 10 ft. pipe extensions... **.70**

BAMBOO EXTENSION RODS TO ELEVATE SPRAY.

Made of bamboo rod with brass tubing passing through center for use on any size sprayers.

No. 4-A-1433 Length, 4 ft..... **$1.00**

No. 4-A-1434 Length, 6 ft..... **1.25**



"PERFECTION" SPRAY PUMPS.

We offer this brass pump guaranteeing fully that it will do your work. Barrels are of seamless brass tubing. Bottom is brass with brass gauze strainer. The valves are hard vulcanized rubber balls. The hose is extra heavy 4 ply.

The pressure which is brought on the down stroke can easily be from 75 to 125 lbs. Large air barrel and heavy pressure insures a continuous stream. The nozzles will throw a spray, solid stream sprinkle or fine mist. Every pump is equipped with agitator to keep the spraying solution stirred up. All parts coming in contact with the poisonous and acid spraying liquids are brass and non-corrosive.

Each pump is fitted with 3 feet of hose and nozzles as described and can be used for fire protection, washing windows, buggies or spraying trees or shrubbery.

No. 4-A-123 Price as shown in cut with bucket attachment $1.97

No. 4-A-124 Fitted with foot holder instead of bucket attachment $2.12

"PREMIER" FIRE EXTINGUISHERS.

Approved and labeled by the National Board of Fire Underwriters. This label insures that each extinguisher has been carefully examined and complies with every rule of the National Board of Fire Underwriters. A factory or warehouse equipped with approved appliances secures lower fire insurance rates and very often the difference in rate will more than cover the cost of equipment.

This extinguisher has three gallon capacity. Body is made of heavy copper highly polished. The container or cage that holds the acid bottle is of new design and makes the extinguisher absolutely automatic in its action. It cannot possibly fail to work, neither can it get out of order, as there are no springs, clamps or movable parts of any kind. The simplicity of the bottle cage of the "Premier" extinguisher proves its superiority. Each extinguisher is furnished complete with charge and hose, as shown in illustration.

No. 4-A-128 Price $3.00

"PERFECTION" DRY POWDER FIRE EXTINGUISHER.

This extinguisher is made of a metal tube in which is contained a combination of chemicals that when thrown on a blaze generate a gas and readily puts out the fire.

The chemical is perfectly harmless and will not injure flesh or fabrics. Neither will it freeze or deteriorate, and is always ready for use. **No. 4-A-129** Price each $0.50
Price per dozen 5.50

HYDRAULIC RAM.

A Hydraulic Ram is an automatic device for elevating water. Wherever a flow of water with a gradual fall can be obtained, a portion of water may be forced to a considerable height to a tank or reservoir. These rams may be placed below a spring or stream of water at a distance varying from 25 ft. to 50 ft. For every 10 ft. that you wish to elevate the water, the ram must be placed one foot below the level of the spring. Should you wish to elevate the water to a height of 50 ft. ram would have to be placed at a point 5 ft. lower than the source of supply. In the operation of the ram it will only raise approximately 1-7 of the water which runs into it, the balance serves to furnish the power and is released by the valve in the operation of elevating the water, which is wasted.

"PREMIER" DOUBLE ACTING BARREL SPRAY PUMP.

This pump is constructed with **Solid Brass Upper and Lower Cylinders.** The upper or deferential cylinder is made from 1-½ in. seamless brass tubing, while the lower cylinder is made from 2 in. seamless brass tubing of a grade that has been tested to a very high pressure. The main body of the pump is all air chamber and is capable of standing as high pressure as 150 lbs. per square inch. Parts of this pump are easily replaced and cylinders are easily repacked without tearing the pump topieces.

This style of pump is unusually powerful and is constructed to meet the demands of a first class orchard barrel sprayer.

By the use of the extension rod illustrated herewith, the tops of the highest trees may be reached. We furnish this pump with either one or two leads of hose, and it cannot be surpassed for fast spraying by any hand pump.

One feature contained in this pump not found in others is that it has but few joints, and wherever packing is required, we use the best grade of hydraulic leather, which is wholly unaffected by spraying mixtures. Lever is rigidly attached to the top of chamber and is extra long, besides being operated on short centers.

This sprayer is generally mounted by the user on a wine or kerosene barrel and the base is so arranged that it may be mounted either on the top or side of barrel. You will notice that the base of this sprayer is concave, so that when used on the side of barrel it will fit perfectly. We claim for this pump that it is the most efficient, most durable and easiest operating pump on the market.

When not wanted for spraying, the agitator can be disconnected and the pump can then be used as a general purpose pump about the farm, either for washing windows, buggies, extinguishing fires, sprinkling lawns, flower beds, etc. Inasmuch as all parts which come in contact with the liquid are brass, this pump will pump water, acid or oil.

The following prices do not include the barrel.

No. 4-A-125 Including pump, pressure agitator, suction pipe and brass sprayer. No hose. $5.65

No. 4-A-125½ Includes pump, pressure agitator and fixtures complete with one 5 ft. lead of ½ in. 4 ply hose and Vermorel nozzle. Price $7.10

No. 4-A-126 Includes pump, pressure agitator, and fixtures complete with two 5 ft. leads of ½ in. 4 ply hose and Vermorel nozzle. Price $8.35
Bordeaux nozzle furnished at same price if desired.

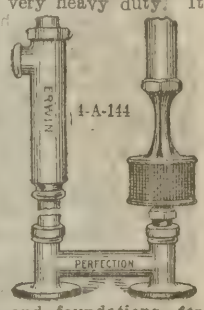
No. 4-A-127 8 ft. extension pipe. Price each $0.50

"PERFECTION" CELLAR DRAINER.

For Draining Boiler Pits, Cellars, etc. Operated by Water, Steam or Air Pressure.

There are a great many cellars, boiler pits, wheel pits, etc., in which water accumulates, and this Cellar Drainer is a very reliable device to force the water out of such a place. For ordinary use we recommend the Automatic Perfection Cellar Drainer to be connected to City Water pressure. We show herewith how this should be connected. When Automatic water accumulates in the pit, the float is lifted from the stop valve and the City water passes through the drainer and forces out the bilge water. This drainer starts and stops itself automatically, and it is so very simple in construction that it is not likely to get out of order. All parts of the Perfection Cellar Drainer are made interchangeable, and it is easily repaired should there be any occasion for doing so. These automatic Cellar Drainers are in operation raising discharge water 15½ feet, although this is a very exceptional case. The Drainer can safely be depended on, however, to lift the discharge water onefifth of the distance in feet of the City water pressure in pounds. In other words, with a fifty pound City water pressure you could raise the discharge water ten feet.

Cut **No. 4-A-144** shows the Plain Cellar Drainer without the automatic attachment. We recommend this Drainer for use under very heavy duty. It can be operated with water, steam or air pressure. Connection would be made into this the same as on the automatic, but it would operate only when the valve on the power line is open, permitting either water, steam or air to blow through the Drainer. Where there is almost a constant discharge of water to be cared for, this Drainer is better than the automatic. These Plain Cellar Drainers are largely used to keep water out of ditches, excavations and foundations, for plumbers and contractors. They can be easily operated by attaching a rubber hose to the City water supply and another from the discharge to the sewer and let it run as long as it may be necessary to keep the excavation drained.



These Drainers, both automatic and plain, are noiseless, are very substantially built and have a larger capacity than any other Drainer on the market.

AUTOMATIC "PERFECTION" CELLAR DRAINER.

No.	Inlet	Discharge	Gals. Disc. Per Hour	Weight Lbs.	Price
4-A-141	¾ in.	1 in.	400	19	$17.50
4-A-142	¾ in.	1½ in.	800	22	22.00
4-A-143	1 in.	2 in.	1500	28	26.00

Dimensions: 18 inches long, 12 inches wide, 20 inches high.

"PERFECTION" PLAIN CELLAR DRAINER

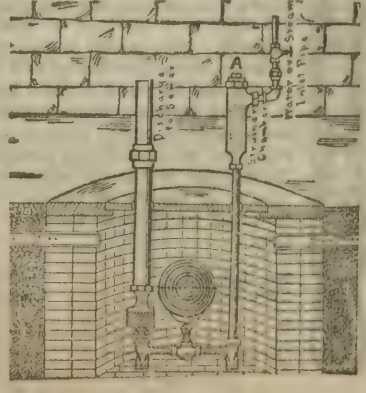
No. 4-A-144 Price $12.00
No. 4-A-145 Price 16.00
No. 4-A-146 Price 20.00

Inlet, outlet and capacity same as for the Automatic Drainer.

Plan showing one of a number of ways of setting and conecting a Perfection Cellar Drainer.

Note—When information is desired or order is given, please state the estimated water or steam pressure. Height from bottom of Drainer pit to point where water is to be discharged. Plan to make the distance as short as possible.

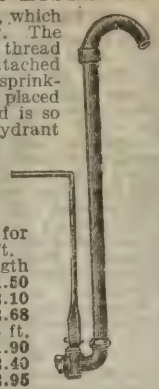
Chart and full instructions for installing sent with each Drainer.



Size No.	Supply per Minute to Operate Ram	Length of Drive Pipe	CALIBER OF PIPES Drive	Discharge	Price
4-A-1302	1 to 2 gallons	50 to 75 feet	¾ inch	¼ inch	$ 4.80
4-A-1313	2 to 4 gallons	50 to 75 feet	1 inch	¼ inch	5.88
4-A-1324	3 to 7 gallons	50 to 100 feet	1¼ inch	¼ inch	7.50
4-A-1335	6 to 14 gallons	50 to 150 feet	2 inch	1 inch	11.75
4-A-1346	11 to 25 gallons	50 to 200 feet	2½ inch	1¼ inch	21.25
4-A-1357	20 to 40 gallons	50 to 200 feet	3 inch	1½ inch	39.00

GALVANIZED GOOSENECK HYDRANTS.

A low priced, efficient hydrant, which is made in galvanized pipe only. The gooseneck has a standard hose thread and to which the hose can be attached for fire protection purposes, lawn sprinkling, etc. The valve which is placed below the frost line is brass, and is so arranged that it will drain the hydrant when shut off, thus preventing freezing. The hydrant is provided with shut-off rod, complete as shown in illustration.



No. 4-A-305.

Size	Price for 4 ft. Length	Price for 5 ft. 6 ins. Length	Price for 6 ft. Length
¾ inch	$1.35	$1.40	$1.50
1 inch	1.80	2.00	2.10
1¼ inch	2.50	2.60	2.68
	6½ ft.	7 ft.	8 ft.
¾ inch	$1.70	$1.80	$1.90
1 inch	2.20	2.30	2.40
1¼ inch	2.75	2.85	2.95

LAWN HYDRANTS.

The body of this hydrant is ornamental. It is anti-freezing, and when closed off, the valve at the bottom drains the body of the hydrant. This valve can be removed from the top to be repaired without taking up the hydrant.

No. 4-A-306.

Size, inches.	¾	¾	1	1
Price each.	$2.95	$3.25	$4.50	$4.75

PUMP CYLINDERS.

The pump cylinder is the most important part of the pump, and is that part that raises the water, and unless well made and the plungers and valves all fit properly, the most expensive working head and other parts of pump are rendered useless. Our cylinders are most carefully made, bored true, and we guarantee that the plungers fit accurately. The cylinders which we offer below are the same as fitted to our regular line of pumps. A 10 in. cylinder has a 6 in. stroke; a 12 in. cylinder an 8 in. stroke; a 14 in. cylinder a 10 in. stroke, and a 16 in. cylinder a 12 in. stroke. 2 in. cylinders are fitted for 1 in. pipe; 2½ or 3 in. cylinders fitted for 1¼ in. pipe; 3½ in. for 1½ in. pipe, and 4 in. cylinders fitted for 2 in. pipe. We recommend brass body cylinders, as they outwear the iron cylinders and work more easily.

BRASS BODY CYLINDERS.

No. 4-A-307.

Length Inches. Diam. Inches.	10 Price	12 Price	14 Price	16 Price
2	$1.78	$1.90	$2.00	$2.14
2½	1.90	2.00	2.20	2.44
3	2.14	2.26	2.48	2.78
3½	2.49	2.67	2.91	3.42
4	3.09	3.40	3.80	4.16

IRON BODY CYLINDERS.

No. 4-A-307½.

Length Inches. Diam. Inches.	10 Price	12 Price	14 Price	16 Price
2	$0.73	$0.97	$1.20	$1.35
2½	.80	1.05	1.30	1.44
3	.94	1.19	1.45	1.66
3½	1.08	1.30	1.65	1.77
4	1.24	1.65	1.90	2.05

EUREKA TUBULAR WELL CYLINDERS.

These cylinders are made of seamless drawn brass tubing with brass valves, and are made to fit inside of the pipe in sizes as listed. They are set in place after well is made, using the setting tool attached to drill rod to crowd it down into place. A spring coupling holds firmly to the walls inside of pipe. They have no outside caps, which makes it possible to set the cylinder very easily, and you can also take it up readily for repair. They are furnished complete as shown in illustration:

No. 4-A-308. Size, Inches.	Price each for 12 in. stroke.
2	$2.20
2½	3.85
3	5.15

SETTING TOOL.

Used in connection with Eureka Tubular Well Cylinders.

These tools are used for placing cylinders in position with pipe: also drawing cylinder up out of well. In ordering order same size tool as cylinder ordered.

No. 4-A-309.

Size, inches.	2	2½	3
Price each.	$0.27	$ .42	$ .55

DRIVE WELL POINTS.

They are made of wrought iron pipe, galvanized inside and out after the holes are punched. They are covered with brass gauze and have a great filtering surface. No. 60 gauze is generally used. No. 100 gauze is for quick sand. We can furnish either flush point for tubular well or with cast head for driving. Be sure and give number when ordering.

No. 4-A-310. Cast Point.
No. 4-A-311. Flush Pcint.

Diam. Inches.	Length, Inches.	No. 60 gauze.	No. 100 gauze.
1¼	24	$0.55	$1.33
1¼	36	.75	1.65
1¼	42	.93	1.95
1¼	48	1.05	2.30
1½	30	.95	1.84
1½	36	1.15	2.30
1½	42	1.40	2.75
1½	48	1.80	3.15
2	36	1.65	2.95
2	42	2.00	3.65
2	48	2.17	4.10

MALLEABLE STRAINERS.

To be used on the end of well and cistern pipe and is covered with brass cloth.

No. 4-A-312.

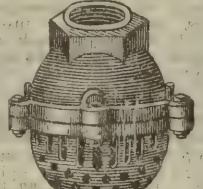
Size, inches.	1	1¼	1½	2
Price each.	$0.15	$ .17	$ .19	$ .27

WATER CONDUCTORS.

Are used to conduct water from spout of pump to tank and are made with a swivel so water can be carried in any direction from the pump.

No. 4-A-313.

Size, In	1¼	1½
Price each.	$0.27	$ .27



FOOT VALVES.

As a combination Foot Valve and Strainer. It is placed on the end of pipe in the bottom of cistern or well and prevents anything passing into the pipe and thereby choking the cylinder. It also serves the purpose of a check valve, keeping water in the pipe and making priming unnecessary. Price each.

No. 4-A-314. For 1¼ in. pipe $0.25
No. 4-A-315. For 1½ in. pipe ..... .32
No. 4-A-316. For 2 in. pipe ..... .45

DRIVE CAPS.

Used for driving pipe for Drive Wells. Guaranteed not to crush the thread.

No. 4-A-317.

Size inches.	1¼	1½	2
Price each.	$0.12	$ .15	$ .25
Size inches.	2½	3	
Price each.	$0.50	$ .70	

CAST STEEL DRIVE SHOES.

These shoes are made of cast special steel, and have a recess as shown in illustration to prevent the pipe from spreading or breaking off at end of threads. They have an inside shoulder to prevent the pipe from being forced through the shoe.

No. 4-A-318.

Size, In.	Price each.		
2	$0.48	4½	$4.25
2½	.78	5	4.75
3	1.35	6	6.00
3½	2.50	8	8.25
4	2.75		

LITTLE GIANT COMBINATION PUMP DIES AND STOCK.

No. 4-A-392. Two dies in one stock, will cut full threads.

Size dies	¼,	⅜
Price, each		$1.90

GALVANIZED STEEL PUMP ROD.

This is a special full rod, made especially to be used in connection with pumps. Rods are thoroughly galvanized and come in 18 foot lengths, each length threaded and fit with couplings. Prices as below are for full lengths of 18 feet only. We will cut rods to special lengths as quoted below.

No. 4-A-319.

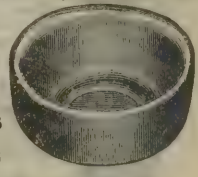
Diameter Inches	½	7-16	½
Price per length 18 ft.	$0.45	$ .63	$ .81

Cut Special Lengths.

No. 4-A-320.

Diameter Inches.	⅜	7-16	½
Price per foot	$0.05	$ .05	$ .05

PLUNGER LEATHERS.



Made from best oak tanned leather.

No. 4-A-321.

Diam. Cylinder In.	2	2½	3
Price ea.	$0.03½	$ .04	$ .06
Diam. Cylinder In.	3½	4	
Price each	$0.07	$ .08	

LOWER VALVE LEATHERS.

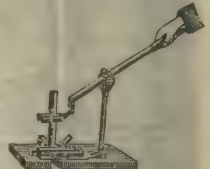
Made of best oak tanned leather.

No. 4-A-322.

Diam. Cylin. In.	2	2½	3
Price ea	$.02½	$.04	$ .04½
Diam. Cylinder In.	3½	4	
Price each	$0.05	$ .05	

BABCOCK PIPE LIFTER AND HOLDER.

This tool is used by well drillers. It is simple and perfect in its operation, guaranteed not to tear or damage pipe. Handles pipe from 1 to 2 inches inclusive. Approximate weight 45 lbs.



No. 4-A-323.—Price $4.85

MONITOR PIPE HOLDER.

Capacity from 1 to 2 inches. Simple in construction and easily operated. The dog is chill hardened and will not wear. Grips the pipe perfectly and guaranteed not to slip.

No. 4-A-324. Price each $3.00

STUFFING BOX HEAD.

With side outlet. Made of iron with polished steel rod fitted at top end with square wood rod socket and bottom for 7-16 in. steel rod.

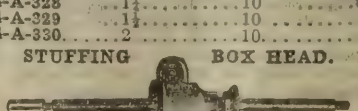
	Pipe Size, In.	Stroke	Price Each
No. 4-A-325	1¼	10	$1.70
No. 4-A-326	1½	10	1.70
No. 4-A-327	2	10	1.70

STUFFING BOX HEAD

Made of iron with 7-16 in. steel pump rod.

	Pipe Size, In.	Stroke	Price Each
No. 4-A-328	1¼	10	$1.45
No. 4-A-329	1½	10	1.45
No. 4-A-330	2	10	1.45

STUFFING BOX HEAD.



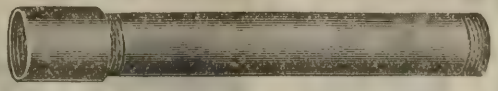
Made of cast brass with 7-16 in. steel pump rod.

	Pipe Size, In.	Stroke	Price Each
No. 4-A-331	1¼	10	$1.50
No. 4-A-332	1½	10	1.50
No. 4-A-333	2	10	1.50

PIPE FOR STEAM, WATER, GAS, OIL, ETC.

Good for All General Purposes

Black Pipe. Boiler Tubes.



Lap Welded Casing Galvanized Pipe.

NEW STANDARD PIPE FOR WATER, GAS AND STEAM.

No. 6-A-1. The size of the pipe is always determined by its inside diameter. It comes in lengths ranging 16 to 20 feet, threaded and fitted with couplings.

Prices quoted are for full lengths. Where pipe is cut to special lengths there will be an additional charge for threads as noted below. Special lengths are not furnished with couplings.

Nom'al Inside Diam. Inches	Actual Outside Diam. Inches	Thickness Inches	Nominal Weight per foot	No. of Threads per Inch of screw	Price per ft. Black	Price per ft. Galvan.
⅛	0.67	0.091	0.56	18	$0.01½	$0.02¾
¼	0.84	0.109	0.84	14	.02½	.03¾
⅜	1.05	0.113	1.12	14	.03	.04½
1	1.31	0.134	1.67	11½	.04	.06
1¼	1.66	0.140	2.24	11½	.05½	.08
1½	1.9	0.145	2.68	11½	.06½	.10
2	2.37	0.154	3.61	11½	.08½	.13
2½	2.87	0.204	5.74	8	.14	
3	3.5	0.217	7.54	8	.19	
3½	4.00	0.226	9.00	8	.27	
4	4.5	0.237	10.66	8		

OVERHAULED STANDARD BLACK PIPE.

No. 6-A-2. For steam, water, gas and oil. It is of a second hand nature, but thoroughly practical for further use. It is re-threaded, oiled and furnished complete with couplings and is carefully inspected before shipment. Comes in random lengths. When ordered in special lengths there will be an additional charge for threads as noted below.

Pipe ordered cut to special lengths is not furnished with couplings.

Size Inside Diam.	Approx. Weight per ft.	Price per ft.	Size Inside Diam.	Approx. Weight per ft.	Price per ft.
⅜	½	$0.01½	3½	9	$0.18
½	¾	.02	4	10½	.20
¾	1 1-10	.02¾	4½	12½	.23
1	1⅔	.03½	5	14½	.28
1¼	2½	.04½	6	18¾	Prices on application.
1½	2⅔	.05½	7	23¼	
2	3⅔	.07½	8	28¼	
2½	5¾	.10½	9	33¾	
3	7½	.15	10	40	

EXTRA HEAVY WROUGHT IRON PIPE.

No. 6-A-3. Second hand, in good condition. Suitable for ice manufactnre, high steam pressure and for other purposes where a heavy pipe is required.

We generally have pipe of this kind in stock, and it is offered subject to stock on hand at the time order is received.

Inside Diam. Inches	Approx. Weight per ft.	Price per ft.	Inside Diam. Inches	Approx. Weight per ft.	Price per ft.
1	2.17	$0.04½	3	10.25	$0.21
1¼	3.	.06	3½	12.47	.25
1½	3.63	.07½	4	14.97	.30
2	5.02	.10	5	20.54	.41
2½	7.67	.15½	6	28.58	.57

EXTRA CHARGE FOR THREADING PIPE CUT SPECIFIED LENGTH.

We make the following additional charges for threading and cutting pipe to special lengths; price quoted is per thread. Couplings for special length pipe will be charged for extra.

Size, Diameter	⅜	½	¾	1	1¼	1½	2	2½	3
Price, per thread	$0.05	.05	.05	.05	.05	.05	.07	.10	.14
Size, Diameter	3½	4	5	6	7	8	9	10	
Price, per thread	$0.16	.21	.29	.35	.45	.50	.75	.75	

WROUGHT IRON LAP WELDED CASING.

No. 6-A-4. We have a large quantity of fine wrought iron lap welded casing which is as good as new. The threads are newly cut and each length is fitted with a new coupling. It is not as heavy as the standard pipe, but it will stand equally as much and even greater pressure.

This casing can be used for almost any purpose for which standard black pipe is used, and it is especially recommended for water, gas, and oil lines. Owing to the fact that it is lighter than the standard pipe, it has finer threads. Regular casing threads 14 to the inch. In connection with this casing we can furnish a full line of standard fittings which you will find quoted under the head of "Casing Fittings." These fittings being made to work in connection with the casing.

Inside Diam. Inches.	Outside Diam. Inches.	Approx. Weight per ft. lbs.	Price per ft.
1¾	2	2	$0.5½
2	2¼	2¼	.06
2¾	3	3⅓	.08
3¼	3½	4½	.12
3¾	4	5½	.14
4¼	4½	6¾	.17
5⅝	6	10¾	.25
6¼	6⅝	13	.35

BOILER TUBES FOR RE-TUBING PURPOSES.

No. 6-A-6. We offer below an oportunity to purchase the finest selected Boiler Tubes at prices that mean an enormous saving to you. These tubes are carefully inspected before shipment, and we guarantee them absolutely satisfactory for re-tubing boilers of any kind.

We ship them forward with the understanding that you will be satisfied with them, and give you the privilege, upon inspection, to return them to us, provided you do not find them up to our representations, and you can return them then at our expense for freight.

We cut these tubes to length. They have square ends, are straight, and are practically free from rust and scales.

Outside Diam. Inches	Thickness Inches	Weight per ft.	Price per ft.
2	0.095	1.92	$0.65
2¼	.095	2.17	.07
3	.109	3.25	.08
3¼	.120	4.03	.10
3½	.120	4.32	.12
3¾	.120	4.63	.14
4½	.134	6.17	.17

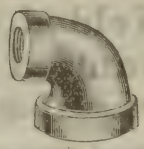
BRAND NEW LAP WELDED STEEL BOILER TUBES.

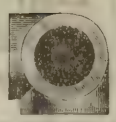
No. 6-A-7. We offer the new tubes for those who do not care to purchase second hand tubes. The prices quoted apply only to regular stock lengths. Where it is necessary to cut to special lengths a charge of 2½ cents per cut, also a charge for any waste that would be caused by cutting stock lengths.

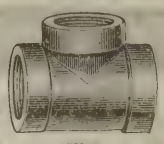
Outside Diam. Inches	Price per ft.	Outside Diam. Inches	Price per ft.
1½	$0.17	2¾	$0.15½
1¾	.12¾	3	.16
2	.11½	3¼	.18¼
2¼	.14	3½	.20
2½	.14¼	4	.25

CAST IRON PIPE FITTINGS

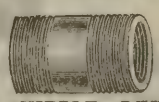
ELBOW


REDUCING ELBOW


ELBOW with side opening

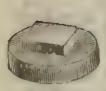

TEE

REDUCING TEE


NIPPLE

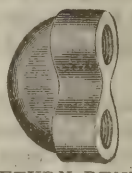
REDUCING COUPLING

COUPLING

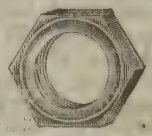

PLUG

CAP

STREET ELBOW


RETURN BEND close pattern

RETURN BEND open pattern


LOCKNUT

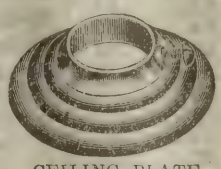
FLANGE UNION

CROSS

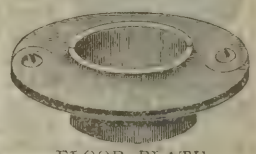
REDUCING TEE

BUSHING

ELBOW 45°


CEILING PLATE

UNION


FLOOR PLATE

CAST IRON FITTINGS FOR STANDARD WROUGHT IRON PIPES.

All fittings are made from the best materials, carefully tapped and perfect threads guaranteed. Generally used for steam and water purposes.

Size, Inches		¼	⅜	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	7	8
No. 21-A- 1.	Elbows, Black	$0.02	$0.02	$0.02½	$0.03	$0.04	$0.06	$0.07½	$0.10	$0.18	$0.27	$0.38	$0.44	$0.72	$0.99	$1.70	$2.43
No. 21-A- 2.	Elbows, Galvanized	.04	.04	.05	.06	.08	.12	.15	.20	.36	.54	.76	.88	1.44	1.98	3.40	4.86
No. 21-A- 3.	Tees, Black	.03	.03	.03½	.04½	.05½	.08½	.10½	.15	.26½	.40	.54	.63	1.08	1.44	2.45	3.51
No. 21-A- 4.	Tees, Galvanized	.06	.06	.07	.09	.11	.17	.21	.30	.53	.80	1.08	1.26	2.16	2.88	4.90	7.02
No. 21-A- 5.	Crosses, Black	..	..	.06	.08	.10	.15½	.19	.27	.47	.72	.97	1.13	1.98	2.61	4.11	6.30
No. 21-A- 6.	Crosses, Galvanized	..	..	.12	.16	.20	.31	.38	.54	.94	1.44	1.94	2.26	3.96	5.22	8.82	12.60
No. 21-A- 7.	Plugs, Black	.01	.01	.01	.01	.01½	.01½	.02½	.03	.05½	.07½	.11½	.13	.26½	.36	.56	.83
No. 21-A- 8.	Plugs, Galvanized	.02	.02	.02	.02	.03	.03	.05	.06	.11	.15	.23	.26	.53	.72	1.12	1.66
No. 21-A- 9.	Bushings, Black	..	..	.01½	.02	.02	.02½	.03	.04½	.07	.10	.13	.16	.30	.40	.60	.88
No. 21-A-10.	Bushings, Galvanized	..	..	.03	.04	.04	.05	.06	.09	.14	.20	.26	.32	.60	.80	1.30	1.76
No. 21-A-11.	Caps, Black								.09½	.14½	.19½	.27	.32	.44	.56	.90	1.03
No. 21-A-12.	Caps, Galvanized								.19	.29	.39	.54	.64	.88	1.12	1.80	2.16
No. 21-A-13.	Couplings, Black	.01½	.02	.02	.03	.04	.05	.06	.08	.11	.17	.22	.27	.45	.65	.88	1.15
No. 21-A-14.	Couplings, Galvanized	.02	.02	.03	.04	.05	.07	.09	.11	.15	.22	.29	.38	.61	.88		
No. 21-A-15.	Flange Unions, Black	..	..	.12	.14	.16	.20	.24	.30	.38	.45	.54	.63	.95	1.19	1.65	2.10
No. 21-A-16.	Flange Unions, Galvanized	..	..	.24	.28	.32	.40	.48	.60	.76	.90	1.08	1.26	1.90	2.38	3.30	4.20
No. 21-A-17.	Return Bends, Close, Black	..	..	.07	.08	.08	.10	.15	.21	.44	.62						
No. 21-A-18.	Return Bends, Close, Galvanized	..	..	.14	.16	.16	.20	.30	.42	.88	1.24						
No. 21-A-19.	Return Bends, Open, Black	..	..	..	.10	.11	.15	.20	.29	.49	.80						
No. 21-A-20.	Return Bends, Open, Galvanized	..	..	..	.20	.22	.30	.40	.58	.98	1.60						
No. 21-A-21.	Ceiling Plates, Black	..	..	..	.03½	.04½	.05	.06	.07	.10	.13	.15	.18				
No. 21-A-22.	Floor Plates, Black	..	..	.02	.02	.02½	.03	.04	.05	.07	.08						
No. 21-A-23.	Nipples, Short, Black	.01	.01	.01	.01	.01½	.02	.02½	.02½	.08½	.10	.18	.21	.37	.45	.77	.85
No. 21-A-24.	Nipples, Short, Galvanized	.01	.01	.01	.01½	.02	.03	.04	.05	.12	.15	.29	.33	.56	.68	1.02	1.20
No. 21-A-25.	Nipples, Long, Black	.01	.01	.01½	.02	.02½	.03	.04	.05	.13	.16	.26	.29	.59	.70	.87	.97
No. 21-A-26.	Nipples, Long, Galvanized	.02	.02	.02	.03	.03½	.06	.07	.09	.18	.23	.41	.45	.76	1.02	1.19	1.39
No. 21-A-27.	Reducing Elbows, Black	..	..	.03	.03½	.04½	.06½	.08½	.12	.22	.31	.44	.51	.83	1.14	1.95	2.79
No. 21-A-28.	Reducing Elbows, Galvanized	..	..	.06	.07	.09	.13	.17	.24	.44	.62	.88	1.02	1.66	2.28	3.90	5.58
No. 21-A-29.	45 degree Elbows, Black	..	.02½	.03	.04	.05	.07	.09	.13	.22	.33	.45	.53	.90	1.25	2.13	3.06
No. 21-A-30.	45 degree Elbows, Galvanized	..	.05	.06	.08	.10	.14	.18	.26	.44	.66	.90	1.06	1.80	2.50	4.26	6.12
No. 21-A-31.	Reducing Tees, Black	..	..	.04	.05	.07	.10	.12	.17	.30	.45	.62	.72	1.26	1.66	2.81	4.05
No. 21-A-32.	Reducing Tees, Galvanized	..	..	.08	.10	.14	.20	.24	.24	.60	.90	1.26	1.44	2.52	3.32	5.62	8.10
No. 21-A-33.	Reducing Crosses, Black	..	..	.07	.09	.11	.17	.22	.30	.53	.80	1.08	1.26	2.16	2.88	4.86	6.93
No. 21-A-34.	Reducing Crosses, Galvanized	..	..	.14	.18	.22	.34	.44	.60	1.06	1.60	2.16	2.52	4.32	5.76	9.72	13.86

Note:—Reducing Tees, thus 1 ½ ¾, are read 1x¾x½. Always give end openings first, then side openings. In ordering Reducing Crosses always mention all openings, reading straight across, then up and down thus: 2—1¼ would read 2x1¼x2x2.

MALLEABLE IRON FITTINGS FOR STANDARD WROUGHT IRON PIPES.

Used in connection with gas, air, and water tank lines. The utmost care has been used in the manufacture to prevent any trouble from leaky fittings. Extreme care is used in tapping our line of malleable fittings, making them the best possible fittings for this class of work.

Sizes, Inches		¼	⅜	½	¾	1	1¼	1½	2	2½	3
No. 21-A-35.	Elbows, Right Hand, Black	$0.01½	$0.01½	$0.02	$0.03½	$0.05	$0.07½	$0.08½	$0.12	$0.17	$0.27	$0.50
No. 21-A-36.	Elbows, Right and Left Hand, Black	.02	.02½	.04	.06	.08½	.10	.14	.22			
No. 21-A-37.	Elbows, Right Hand, Gal.	.02	.03	.05	.07	.11	.14	.20	.30	.45	.86	
No. 21-A-38.	Elbows, 45° Right Hand, Black	.03	.03½	.04	.06	.09	.12	.18	.27	.42	.83	
No. 21-A-39.	Elbows, 45° Right Hand, Gal.	.04	.05	.07	.08½	.13½	.17	.28	.45			
No. 21-A-40.	Elbows, Street, Black	.03½	.03½	.04	.07	.08½	.13½	.18½	.30	.50		
No. 21-A-41.	Elbows, Street, Gal.	.04	.04	.05	.09½	.12	.18½	.27	.43			
No. 21-A-42.	Side Outlet Elbows, Black		.03	.03½	.06	.10	.15	.20	.33			
No. 21-A-43.	Tees, Black	.02½	.02½	.03	.04	.05	.08½	.10	.15	.20	.35	.56
No. 21-A-44.	Tees, Gal.		.03	.03½	.05½	.07	.13	.17	.23	.33	.53	.99
No. 21-A-45.	Crosses, Black		.03	.03½	.04	.07	.10	.14	.20	.33	.53	.99
No. 21-A-46.	Crosses, Gal.				.06	.08½	.15	.20	.30	.50	.91	
No. 21-A-47.	Reducers, Black		.01	.01	.02	.03½	.05½	.07	.09½	.15	.24	.33
No. 21-A-48.	Reducers, Gal		.01	.01	.01½	.02	.02½	.03	.04	.06		
No. 21-A-49.	Caps, Black				.03	.05	.09	.12	.15	.25	.35	.55
No. 21-A-50.	Caps, Gal.		.01	.01½	.02	.03	.04	.05½	.08	.11	.15	.28
No. 21-A-51.	Return Bends, Close, Black		.01½	.02	.03	.04	.06	.08	.13	.17½	.25	.43
No. 21-A-52.	Return Bends, Close, Gal				.04½	.06½	.12	.17	.25	.33		
No. 21-A-53.	Return Bends, Open, Black				.08½	.12	.18½	.26	.38	.55		
No. 21-A-54.	Return Bends, Open, Gal				.05	.10	.16½	.22	.28	.42	.66	.99
No. 21-A-55.	Lock Nuts, Black				.08½	.15	.23	.30	.42	.66	1.16	1.65
No. 21-A-56.	Lock Nuts, Gal.		.01	.01½	.02	.02½	.03½	.05	.07	.10		
No. 21-A-57.	Unions, Black		.06	.08½	.07	.08½	.10½	.14½	.18	.24	.48	.65
No. 21-A-58.	Unions, Gal		.08½	.09½	.10½	.12½	.16	.22	.28	.36	.73	.98

CASING FITTINGS

To be used in connection with our wrought iron lap weld casings, and differ from the regular standard cast iron pipe fittings, inasmuch as the Casing Fittings are tapped 14 threads to the inch. They cannot be used in connection with the standard gas or water pipe, nor can the Standard Pipe Fittings be used in connection with Casing on account of the difference in thread. It is, however, possible to furnish Combination Fittings, that is to say, one opening tapped for Standard Iron Pipe thread and the other opening or openings tapped for Casing threads. On all Combination Fittings there will be an extra charge of 25% over the prices quoted below:

Sizes to be used in connection with casing, inside diam.		1¼	2	2½	3	3½	3¾	4½	5½
No. 21-A-59.	Bushings	$0.16	$0.16	$0.18	$0.18	$0.24	$0.30	$0.45	$0.75
No. 21-A-60.	Caps	.22	.22	.54	.54	.33	.39	.48	.71
No. 21-A-61.	Couplings	.10	.10	.20	.24	.27	.26	.46	.80
No. 21-A-62.	Crosses	.60	.60	.66	.66	.81	1.05	1.50	2.34
No. 21-A-63.	Crosses (Reducing)	.75	.75	.83	.83	.99	1.30	1.90	2.91
No. 21-A-64.	Elbows	.30	.30	.33	.33	.40	.54	.75	1.20
No. 21-A-65.	Elbows (Reducing)	.47	.47	.52	.52	.55	.67	.90	1.50
No. 21-A-66.	Elbows (45°)	.44	.44	.48	.48	.60	.81	1.12	1.65
No. 21-A-67.	Flange Unions	.60	.60	.67	.67	.83	.95	1.35	1.95
No. 21-A-68.	Locknuts	.13	.13	.15	.15	.21	.30	.40	.57
No. 21-A-69.	Plugs	.13	.13	.15	.15	.23	.25	.40	.72
No. 21-A-70.	Reducers	.33	.33	.36	.36	.45	.60	.83	1.20
No. 21-A-71.	Return Bends (closed)	.80	.80	.90	.90	1.20	1.50	1.95	
No. 21-A-72.	Return Bends (open)	1.00	1.00	1.12	1.12	1.35	1.70	2.40	
No. 21-A-73.	Tees	.40	.40	.45	.45	.60	.75	1.07	1.69
No. 21-A-74.	Tees (Reducing)	.50	.50	.56	.56	.75	.90	1.31	2.02
No. 21-A-75.	Y's	.90	.90	.97	.97	1.35	1.80	2.40	3.60

Branch Tees and Manifolds

Are always tapped left hand in Branches and right hand in Back Inlet. The run and back opening of Branch Tees are tapped the same size as branches.

FOR CIRCULATION.

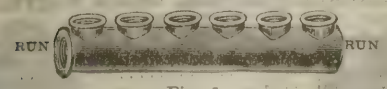


Fig. 1.

FOR CIRCULATION.

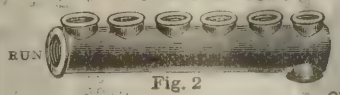


Fig. 2

FOR BOX COILS.

Fig. 3.

1 in. Branch Tees 1 in. or 1¼ in. run are 1¾ in. inside diameter.
1¼ in. Branch Tees are all 2½ in. inside diameter.
2 in. Branch Tees are all 3½ in. inside diameter.

1 in. Branch Tees 1½ in. or 2 in. run are 2½ in. inside diameter.
1¼ in. Branch Tees are all 2¾ in. inside diameter.
Always order Branch Tees by size and figure number.

	1 in. Br. Tees 2½ in. Center to Center			1¼ in. Br. Tees 3 in. Center to Center			1½ in. Br. Tees 3½ in. Center to Center			2 in. Br. Tees 4½ in. Center to Center		
	1 in. or 1¼ in. Run.	1½ in. Run.	2 in. Run.	1¼ in. or 1½ in. Run.	2 in. Run.	2½ in. Run.	1½ in. or 2 in. Run.	2½ in. Run.	3 in. Run.	2 in. Run.	2½ in. or 3 in. Run.	3½ in. Run.
2	$0.30	$0.35	$0.40									
3	.38	.40	.50	$0.60	$0.70	$0.85	$0.95	$1.25	$1.55	$1.85	$2.00	$2.20
4	.40	.45	.60	.75	.85	1.00	1.20	1.45	1.65	2.25	2.50	2.75
5	.50	.50	.65	.85	1.05	1.20	1.40	1.80	1.90	2.70	3.00	3.25
6	.60	.60	.75	1.00	1.20	1.35	1.65	2.10	2.20	3.10	3.50	3.75
7	.70	.80	.85	1.15	1.40	1.50	1.85	2.30	2.55	3.75	4.25	4.75
8	.80	.90	1.00	1.30	1.60	1.75	2.05	2.50	2.75	4.00	4.50	5.00
9	.95	1.05	1.20	1.55	1.85	2.15	2.30	2.90	3.25	4.30	4.75	5.50
10		1.20	1.45	1.75	2.05	2.40	2.70	3.25	3.50	4.70	5.25	6.00
11		1.60	1.75	1.85	2.25	2.55	2.90	3.60	3.75			
12		1.75	1.85	1.95	2.40	2.70	3.00	3.80	4.00			
13		1.95	2.25	2.15	2.50	2.90						
14		2.50	2.55	2.40	2.75	3.15						
15		2.75	2.75	2.65	3.00	3.50						
16		3.00	3.00	3.15	3.30	3.80						

CAST IRON FLANGES (Not Faced)

	Diam. Flange, Inches.	Size of Pipe, Inches. ⅜	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	7	8	9	10
No. 21-A-83	3	$0.03	$0.03															
No. 21-A-84	3½		.04½	.04½	.04½	.04½	.05											
No. 21-A-85	4		.07	.07	.07	.05	.05											
No. 21-A-86	4½		.08	.08	.08		.08	.07										
No. 21-A-87	5		.11	.11	.09	.09	.09	.09	.11									
No. 21-A-88	5½				.14	.12	.12	.12	.11									
No. 21-A-89	6				.15	.13	.12	.12	.13	.13	.15							
No. 21-A-90	6½						.18		.15	.15	.15	.20						
No. 21-A-91	7½							.26	.24	.24	.23	.26	.27					
No. 21-A-92	8½							.35	.33	.33	.33	.30	.30					
No. 21-A-93	9							.41	.39	.38	.35	.35	.35	.35	.42			
No. 21-A-94	14														.98	.98	.98	
No. 21-A-95	16																$1.50	$1.50 $1.50

CAST IRON HOOK PLATES

No. of Hooks		1	2	3	4	5	6
No. 21-A-79.	For 1 inch Pipe, 2½ inches between centers	$0.02½	$0.05	$0.06½	$0.07½	$0.09	$0.11
No. 21-A-80.	For 1¼ inch Pipe, 3 inches between centers	.03	.06	.08	.09	.12	.15
No. 21-A-81.	For 1½ inch Pipe, 3½ inches between centers	.04½	.08	.12	.16½	.20½	.25
No. 21-A-82.	For 2 inch Pipe, 4½ inches between centers	.06½	.12	.18½	.25½	.32	.38

RAILING FITTINGS.—(Malleable Iron.)

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

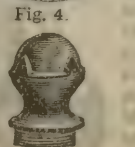


Fig. 8.

No. 21-A-96. To be used in connection with Standard Pipe for the purpose of constructing fences and enclosures of all kinds.

PLEASE READ WITH CARE:—To construct a railing, two pipes high, the upper outlet of all Fittings in the lower pipes should be tapped with left hand thread, but unless orders are sent us how outlets are to be tapped all fittings will invariably be furnished tapped right hand. As fittings used for this purpose do not need to be steam or water tight a sufficiently clean thread to screw up well and make a good job can be made by running a left hand tap into any outlet tapped right hand. Prices quoted below are for right hand only. For fittings tapped right and left hand there will be an additional charge of 15 per cent.

Size, inches		¼	⅜	½	¾	1	1¼	1½	2
Figure No. 1.	Elbow	$0.06½	$0.08	$0.08½	$0.10	$0.15	$0.19	$0.30	
Figure No. 2.	Elbow Side Outlet	.08½	.10	.10½	.17	.21	.34		
Figure No. 3.	Tee	.08½	.10	.10½	.17	.21	.32		
Figure No. 4.	Tee S. Outlet	.13	.14	.15	.19	.33	.38		
Figure No. 5.	Cross	.13	.14	.15	.19	.24½	.42		
Figure No. 6.	Cross S. Outlet	.15	.16	.17	.21	.27½	.57		
Figure No. 7.	Floor Flange	.06	.06½	.06½	.08½	.12	.13		
Figure No. 8.	Acorn Ornaments	.07	.08	.08½	.10½	.15	.38		

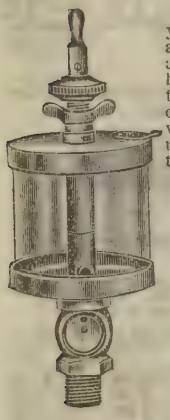
AUTOMATIC GREASE CUP.

Suitable for Bearings of All Kinds.

No. 16-A-11.

Size	Inside Dia. Inches	Shank Pipe Thread	Cap. (grease) Ounce	Price, each
00	¼	⅛	½	$0.39
0	1¼	⅛	1	.52
1	1½	⅛	1½	.65
2	2	⅛	3	.85
3	2½	⅛	6	1.20
4	3	⅛	10	1.55

SIGHT FEED GLASS BODY OIL CUP.

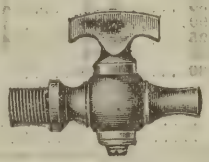


No. 16-A-12. We wish to call your particular attention to the act that it is not necessary to adjust the feed each time, it being so constructed that when the desired feed is once set it can be stopped and started at will without resetting. This particular feature will save much trouble and annoyance.

Size	Outside Dia. of Glass.	Height of Glass.	Capacity, Ounces	Shank Pipe Thread	Brass finish Price each
0	1½	1½	⅝	⅛	$0.50
1	1⅝	1⅝	1	⅛	.57
1½	1¾	1	1½	⅛	.64
2	2	1⅜	2½	⅛	.70
3	2½	2¼	4	⅛	.78
4	2¾	2¾	5	⅛	.90
5	3	3	10	¼	1.20

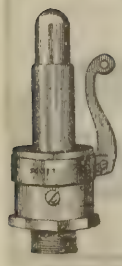
AIR COCKS.

No. 16-A-13.



Pipe size, inches	Price, each
⅛	$0.09
¼	.10
⅜	.11
½	.13

POP SAFETY VALVES.



No. 16-A-14. Brass with phosphor bronze seats for locomotives, hoisting engines, traction outfits and stationary and portable boilers of all kinds. When ordering state at what pressure you require the valve to be set.

Size, inches	Horse Power	Price, each
¾	8	$ 1.60
1	12	1.95
1¼	18	2.30
1½	20	3.00
2	30	4.50
2½	75	9.50
3	100	11.00

PATENT IRON GONG WHISTLES.

No. 16-A-15. Especially recommended for mills, mines, factories and fire alarm purposes. The tone is entirely different than that of an ordinary whistle and can be distinctly heard from six to eight miles. They are made entirely of iron and are practically indestructible. They have two bells, one short and one long. The sound of this whistle can be changed from shrill to coarse by moving the bells to and from the steam outlet

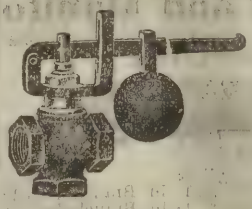
Diam. of gong	4	6	8	10
Length of whistle	22	30	40	47
Size of steam inlet	1¼	1½	2	2½
Weight, lbs	35	83	150	275
Price, each, complete, with whistle valve	$8.75	10.30	14.70	23.40
Price, each, without whistle valve	$7.25	8.50	12.00	18.00

STEAM WHISTLES.

No. 16-A-16. Made of high grade steam metal and furnished complete with spring valves.

Diam. of Bell	Size of pipe connection	Price each
1	1¼	$1.00
1¼	1¼	1.25
1½	1½	1.35
2	1½	1.90
2½	1½	2.25
3	1	2.75
3½	1	4.00
4	1¼	5.10
5	1½	6.7
6	2	9.00

SAFETY VALVES (Ball and Lever.)



No. 16-A-17.

Size Inches	Price each
¼	$1.10
¾	1.30
1	1.40
1¼	1.70
1½	2.00
2	2.70
2½	4.50
3	5.56

COMPRESSION GAUGE COCKS.

No. 16-A-19. With wood handles, brass finished, with stuffing box.

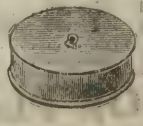
Size, inches	¼	½	¾
Price, each	$0.30	.33	.37

FLOAT VALVES.

No. 16-A-20. Reverisble float outlet valves for automatically controlling the flow of water in reservoirs, stock tanks, cisterns, etc., and is equally effective under high or low pressure. Valve opens with flow instead of against it. Valve will not stick and is not injured by freezing. By reversing the lever a perfect outlet valve is obtained.

Size, inches	¾	1	1¼
Price, each	$0.80	.90	.98

COPPER FLOATS.



No. 16-A-21. To be used in connection with Float Valves, steam being attached to the valve lever to open and close automatically.

Size, inches 9½x2¾
Price, each $0.90

BRASS VALVES.

All valves described below are brand new, standard brass valves, and are made for special mixtures of metal, making them equally desirable for steam or water purposes. Every valve is guaranteed to be perfect and the best of its kind on the market.

STANDARD BRASS GLOBE VALVES.

No. 16-A-22.

Size Inches	Price Each
¼	$0.24
⅜	.24
½	.24
¾	.26
1	.33
1¼	.60
1½	.83
2	1.15
2½	1.75

STANDARD BRASS ANGLE VALVES.

No. 16-A-23.

Size Inches	Price Each
¼	$0.24
⅜	.24
½	.26
¾	.33
1	.42
1¼	.60
1½	.83
2	1.15
2½	1.75

STANDARD HORIZONTAL CHECK VALVES.

No. 16-A-24.

Size, Inches	Price, each
¼	$0.22
⅜	.22
½	.24
¾	.30
1	.38
1¼	.54
1½	.75
2	1.05
2½	1.57

STANDARD VERTICAL CHECK VALVES.

No. 16-A-25.

Size, Inches	Price, Each
¼	$0.24
⅜	.24
½	.26
¾	.34
1	.41
1¼	.59
1½	.83
2	1.15
2½	1.75

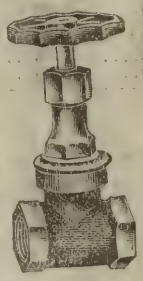
STANDARD SWING CHECK VALVES.

No. 16-A-26.

Size, Inches	Price, Each
½	$0.55
¾	.65
1	.85
1¼	1.00
1½	1.35
2	1.85

STANDARD GATE VALVES.

No. 16-A-27.



Size Inches	Price Each
¼	$0.40
⅜	.40
½	.42
¾	.54
1	.75
1¼	1.00
1½	1.45
2	2.00

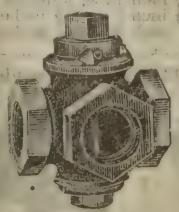
STANDARD BRASS STEAM COCKS.

No. 16-A-28.

Size, Inches	Price, Each
¼	$0.23
⅜	.28
½	.35
¾	.45
1	.60
1¼	.95
1½	1.26
2	1.85

THREE-WAY BRASS STEAM COCKS.

No. 16-A-29.



Size Inches	Price Each
¼	$0.70
¾	.95
1	1.05
1¼	1.65
1½	2.00
2	3.00

STANDARD BRASS GAS SERVICE COCKS.

No. 16-A-30.

Size, Inches	Price, Each
¼	$0.19
⅜	.22
½	.24
¾	.29
1	.38
1¼	.56
1½	.78
2	1.00

BRAND NEW JENKINS' DISC BRASS GLOBE VALVES. No. 16-A-31.

Size Inches	Price Each
¼	$0.33
⅜	.38
½	.48
¾	.66
1	.85
1¼	1.20
1½	1.65
2	2.65

JENKINS' DISC BRASS ANGLE VALVES. No. 16-A-32.

Size Inches	Price Each
¼	$0.33
⅜	.38
½	.48
¾	.60
1	.85
1¼	1.20
1½	1.65
2	2.65

JENKINS' DISC BRASS CHECK VALVES. No. 16-A-33.

Size, inches	Price, each
¼	$0.33
⅜	.36
½	.39
¾	.57
1	.78
1¼	1.10
1½	1.50
2	2.25

IRON BODY GLOBE VALVES

No. 21-A-97. Brass mounted, Plain, Screw Ends.

Size Inches	Price Each
1	$0.75
1¼	.90
1½	1.25
2	1.65
2½	2.45
3	3.10

IRON BODY GLOBE VALVES.

No. 21-A-98. Brass Mounted, Plain, Flange Ends.

Size Inches	Price Each
2	$2.30
2½	3.00
3	4.00

IRON BODY ANGLE VALVES.

No. 21-A-99. Brass Mounted, Plain, Screw Ends.

Size Inches	Price Each
1	$0.75
1¼	.90
1½	1.25
2	1.65
2½	2.45
3	3.10

IRON BODY ANGLE VALVES.

No. 21-A-100. Brass Mounted, Plain, Flange Ends.

Size Inches	Price Each
2	$2.30
2½	3.00
3	4.00

IRON BODY GLOBE VALVES.

No. 21-A-101. Brass Mounted, With Yoke, Screw Ends.

Size Inches	Price Each
3	$ 4.10
3½	5.00
4	6.25
5	8.90
6	12.35

IRON BODY ANGLE VALVES.

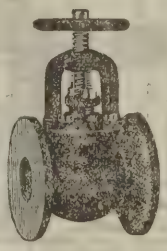
No. 21-A-102. Brass Mounted, With Yoke, Screw Ends.

Size Inches	Price Each
3	$ 4.10
3½	5.00
4	6.25
5	8.90
6	12.35

IRON BODY GLOBE VALVES.

No. 21-A-103. Brass Mounted, with Yoke, Flange Ends.

Size Inches	Price Each
3	$ 4.95
3½	6.00
4	7.40
5	10.25
6	14.50



IRON BODY ANGLE VALVES.

No. 21-A-104. Brass Mounted, with Yoke, Flange Ends.

Size Inches	Price Each
3	$ 4.95
3½	6.00
4	7.40
5	10.25
6	14.50

IRON BODY HORIZONTAL CHECK VALVES.

No. 21-A-105. Brass Mounted, Screw Ends.

Size Inches	Price Each
2	$1.20
2½	2.15
3	2.95
3½	4.00
4	4.60
5	7.25
6	9.90

IRON BODY HORIZONTAL CHECK VALVES.

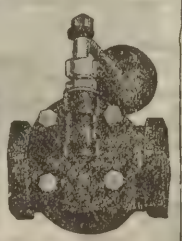
No. 21-A-106. Brass Mounted, Flange Ends.

Size Inches	Price Each
2	$ 1.70
2½	2.72
3	3.75
3½	5.00
4	5.90
5	8.50
6	11.50

IRON BODY BACK PRESSURE VALVES.

No. 21-A-107. Brass Mounted, Screw Ends.

Size Inches	Price Each
2	$ 3.60
2½	4.25
3	4.95
3½	6.25
4	7.40
5	11.00
6	14.00



IRON BODY BACK PRESSURE VALVES.

No. 21-A-108. Brass Mounted, Flange Ends.

Size, inches	3	3½	4	5	6
Price, each	$5.75	7.25	8.50	12.90	15.50

STRAIGHT WAY GATE VALVES

No. 21-A-109. Iron Body, Brass Trimmings, Stationary Stem, Screw Ends.

Size Inches	Price Each
2	$3.30
2½	3.95
3	4.95
3½	5.95
4	6.60
5	8.25
6	9.00

STRAIGHT WAY GATE VALVES.

No. 21-A-110. Iron Body, Brass Trimmings, Stationary Stem, Flange Ends.

Size Inches	Price Each
2	$3.30
2½	3.95
3	4.95
3½	5.95
4	6.60
5	8.25
6	9.00

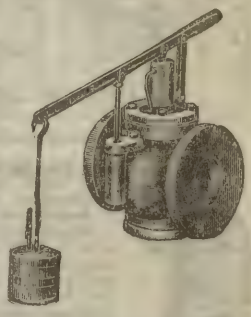
STRAIGHT WAY GATE VALVES.

No. 21-A-111. Iron Body Brass Trimmed, Hub Ends.

Size Inches	Price Each
2	$3.30
3	4.95
4	6.60
5	8.25
6	9.00

PRESSURE REDUCING VALVES.

This valve is simple in construction, and requires no packing, as there are no complicated parts or springs to break or to be looked after. For controlling the steam heating plants it has no equal. When ordering be particular to give **boiler pressure and pressure to be reduced.** Unless otherwise stated screw ends will invariably be furnished.

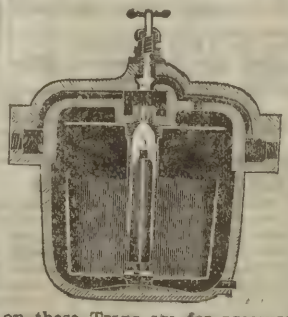


No. 21-A-112. Screw Ends.

No. 21 - A - 113. Flange Ends.

Size, inches	1	1¼	1½	2	2½
Price, each	$13.80	14.40	15.00	18.00	21.00
Size, inches	3	4	5	6	
Price, each	$26.00	36.00	45.00	45.60	

NASON PATTERN STEAM TRAPS.



No. 21-A-114. When pressures exceeding 80 lbs. are to be used, or if the pressure is always less than 30 lbs. a special note should be made of this fact in order that the traps may be fitted with valves of smaller or larger area than is common and otherwise adjusted to their particular work. The prices quoted on these Traps are for pressures of 100 lbs. and less. Prices for Traps with pressure above 100 lbs. quoted on application.

Size No.	1	2	3	4	5
Size of pipe connection	¼	⅜	1	1¼	1½
Diameter outside flanges	10½	14½	15½	19	24½
Diam. of cylinder	8	10½	12	14	18
Height to top of valve	11	14	16½	18½	23½
Height to top of covering	8	10	12	14	15½
Maximum discharge lbs. per minute.	2	5	8	12	20
Greatest number of sq. ft. of surface to which it should be applied	350	900	1400	2000	3500
Greatest number of lineal ft. of 1 inch pipe surface to which it should be applied	1050	2700	4200	6000	10500
Price, each	$ 7.00	8.80	12.00	19.00	30.00

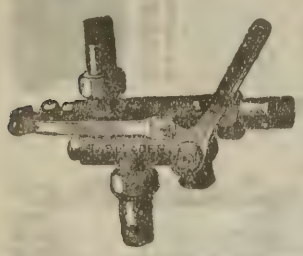
Valves shown on this page are brand new. You can make a big saving by using our Overhauled Second-Hand Valves, which are fully guaranteed.

INJECTORS AND LUBRICATORS

LEADER INJECTOR

No. 16-A-1. This Injector is fast becoming the most popular machine on the market. It has no movable parts in its internal construction, no loose valves, rings or springs to get out of order, and embodies simplicity, durability, neatness of design, great range of work under the various conditions required of injectors, high or low steam, long or short lift, without any adjustment or change of tubes, or Globe Valve in Suction Pipe.

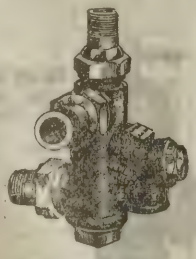
Will lift water from well or stream, heating and forcing into boilers at about 200 degrees temperature, whether engine is running or not. Operated by one lever; will lift water from 1 to 22 feet vertically; horizontal distance not so important when suction pipe is air tight.



No. of Injector	Size of Pipes Steam Pipe	Size of Pipes Suction and Feed	Horse Power of Boiler Will Feed	Gallons per hour, 60 lbs. Steam	Price Each
1	¾	¾	3 to 7	60	$ 4.00
2	¾	¾	7 to 10	90	4.50
3	¾	¾	12 to 18	150	5.50
4	¾	¾	18 to 25	220	6.25
5	¾	¾	25 to 35	300	7.50
6	¾	¾	35 to 45	400	8.75
7	¾	1	45 to 60	500	10.00
8	¾	1	60 to 70	600	11.25
9	1	1¼	70 to 90	750	13.75
10	1	1¼	100 to 125	1000	16.25
11	1¼	1¼	125 to 150	1300	18.75
12	1¼	1¼	150 to 200	1800	22.50

THE PENBERTHY IMPROVED AUTOMATIC INJECTOR.

No. 16-A-2. Price List of Injectors, Including Strainers.



Size No.	Price	Gal. per H. 65 lbs Pres.	Size of Pipe Con.	Horse Power	Size No.	Price	Gal. per H. 65 lbs Pres.	Size of Pipe Con.	Horse Power
00	$ 4.00	60	¾	4 to 8	D	$13.75	750	1¼	72 to 93
A	4.50	120	¾	8 to 12	DD	15.00	920	1¼	93 to 120
AA	5.00	165	¾	12 to 16	E	18.75	1300	1½	120 to 160
B	6.25	250	¾	16 to 28	EE	22.50	1740	1½	160 to 220
BB	7.50	340	¾	28 to 40	F	27.50	2270	2	220 to 290
C	10.00	475	1	40 to 57	FF	31.25	2800	2	290 to 308
CC	11.25	575	1	57 to 72					

CHICAGO AUTOMATIC INJECTOR.

No. 16-A-3. This machine is designed in view of relieving all general conditions now found in traction and stationary engineering. All automatic injectors heretofore constructed have been strictly limited as to their ability to operate high temperatures of feed water and high pressures of steam. The Chicago Automatic is constructed upon entirely new principles which greatly increases its range in both these directions, and at the same time does away with that sensitiveness that is so often found in machines of this class. In construction it is the simplest automatic injector ever put on the market, consisting of three tubes, a body or shell, and one check valve and bushing. All of these parts are held to place by screw thread joints and cannot drop out and become lost. Owing to the extreme simplicity of its construction the Chicago is more easily repaired and cleaned than any other automatic injector. Both the steam jet and forcing tube may be removed by the use of monkey wrench and when cleaning becomes necessary it may be accomplished without breaking any pipe joints or removing injector from boiler. This machine will start low from 15 to 20 lbs. steam pressure on 4 ft. lift and will work high from 135 to 145 lbs. steam pressure. Will work on a 20 to 22 ft. lift with a 60 to 90 lbs. steam pressure. Will work water 120 to 125 degrees hot. Is perfectly automatic at all steam pressures within its range. Every injector is guaranteed to be satisfactory or money refunded.

Size	Pipe Con. Inches	Cap. per Hour Max.	H. P based on Ordinary Tub. Boiler	Price	Size	Pipe Con. Inches	Cap. per Hour Max.	H P based on Ordinary Tub. Boiler	Price
No. 00	¾	80	4 to 11	$ 3.25	No. 3	¾	355	20 to 47	$6.50
No. 0	¾	135	10 to 19	3.60	No. 4	1	475	40 to 64	8.50
No. 1	¾	180	15 to 24	4.00	No. 5	1	600	45 to 80	9.50
No. 2	¾	260	18 to 34	5.00	No. 6	1¼	800	55 to 106	11.00

CHICAGO EJECTOR OR JET PUMP.

No. 16-A-4. For raising, forcing and conveying liquids of any kind and for use of mines, breweries, quarries, etc., the Chicago will prove superior to any Jet Pump. The Chicago Ejector is neat in appearance, is strongly made of the best steam metal, and is extremely simple in its construction. The jets are made of special composition bronze, which is particularly adapted to withstand the action of water containing sand and acid substances, and which these machines are frequently called upon to handle. With an 80 lb. steam pressure this ejector will lift 24 feet and elevate it 40 to 60 feet. With higher steam pressure the elevation will be proportionately greater.

Size	Steam, Inch.	Suction, Inches	Delivery, Inches	Cap. gals. per hour	Price
No. 1	¾	¾	¾	300	$1.75
No. 2	1	1	1	500	2.25
No. 3	1¼	1	1	800	3.25
No. 4	1½	1½	1½	1300	4.25
No. 5	2	1½	1½	2000	5.50

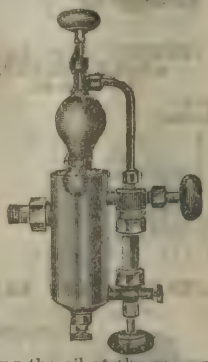
CHICAGO DOUBLE CONNECTION SIGHT FEED LUBRICATOR.

For Stationary Engine.

No. 16-A-5. The condenser valve is a separate piece and not part of the body, thus insuring ease of cleaning and small cost for repairs. It is provided with an ample heating chamber, which insures the oil remaining fluid even when exposed to the most severe weather. The lower feed iron is provided with a drain stem by which the sight glass may be blown out and cleaned without removing from lubricator. Each lubricator is subjected to a rigid test before leaving the factory and guaranteed to work perfectly if connected and operated properly.

Size	½ pt.	½ pt.	1 pt.	1 qt.	½ gal.
For Cylinder, inches	Under 10	10 to 12	12 to 18	18 to 30	30 and over
Pipe Thread on Support Arm	½ inch	½ inch	½ inch	½ inch	½ inch
Price each, brass finish	$2.90	$3.15	$4.25	$5.70	$8.25

CHICAGO SINGLE SIGHT FEED CONNECTION LUBRICATOR.

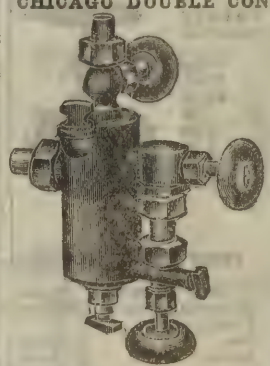


No. 16-A-6. For stationary and traction engines, steam pumps, air compressors and all classes of steam cylinders.

This lubricator will feed the heaviest oils even when exposed to the severest weather and when once adjusted will feed regularly down to the last drop no matter whether the engine is working light or heavily loaded. The steam can be shut off from all parts of the lubricator and any part be repaired, or valve repacked, without stopping engine or shutting off pressure from steam pipe. The heating chamber in this lubricator extends half way around the cup, thus keeping the oil at the proper consistency when used in cold places. The Chicago Lubricator will start instantly and feed regularly.

Size	½ pt.	½ pt.	½ pt.	1 pt.	1 qt.
Pipe thread, in.	½	½	½	½	½
Price, each, Brass finish	$2.45	$2.85	$3.45	$3.85	$5.20

CHICAGO DOUBLE CONNECTION SIGHT FEED LUBRICATOR.

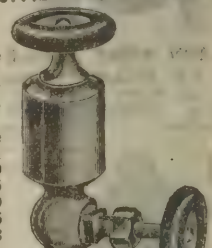


No. 16-A-7. For steam pumps and stationary and portable engines.

This is a medium priced, reliable lubricator for use on steam pumps and stationary engines which are exposed to the cold, and possesses all the advantages and features as contained in the Chicago single connection lubricator of the same style manufactured.

Size	½ pt.	½ pt.	½ pt.	1 pt.	1 qt.
Pipe thread, in.	½	½	½	½	½
Price, each, Brass finish	$2.25	$2.65	$2.75	$3.85	$5.00

STANDARD LUBRICATORS.



No. 16-A-8. Made of the best steam metal, wood handles, and intended for those who desire a cheap reliable lubricator.

Size Inches	Pipe Thread Inches	Price Each
1	¼	$0.50
1¼	¼	.55
1½	¼	.60
1¾	¼	.65
2	¼	.73
2¼	¼	.81
2½	¼	.93
2¾	¼	1.06
3	¼	1.19

BRASS OIL CUPS. Polished Brass. No. 16-A-9.

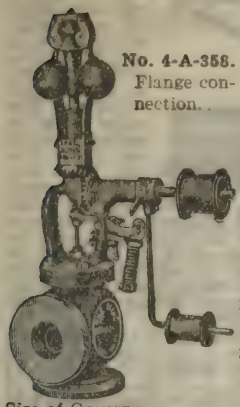
Diam. of body Inches	Pipe Size Inches	Price Each
¾	⅛	$0.07
1	⅛	.10
1¼	⅛	.15
1½	⅛	.24
2	⅛	.45

"PERFECTION" PLAIN BRASS GREASE CUPS. No. 16-A-10.

Size	Inside Dia. Inches	Shank Thread	Cap. (gas.) oz.	Price Each
00	1	⅛	½	$0.11
0	1¼	⅛	¾	.14
1	1½	⅛	1	.18
2	2	⅛	2	.25
3	2½	⅛	3½	.38
4	3	⅛	5	.58

KING GOVERNOR, $8.50.

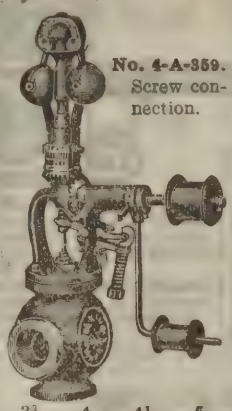
Most sensitive and substantial Governor on the market. Equipped with POSITIVE AUTOMATIC STOPS. Sold on thirty days' trial.



No. 4-A-358. Flange connection.

KING GOVERNORS.

We guarantee that this is the most sensitive, quickest action and most durable Governor manufactured. It is neat in design and first class in workmanship and material. It will give the closest possible regulation and the least possible consumption of steam. Is built in a substantial manner, and made for every day service, the wearing parts all being made of the best metal. This Governor is equipped with automatic stop, which is positive. We sell this Governor on 30 days trial, and if at the end of that time you do not find it entirely satisfactory you have permission to return it to us and we will promptly refund the amount paid thereon. We can furnish you either flange or screw connections. When ordering be sure and state what style connection is required, otherwise flange connections will be shipped in every instance.



No. 4-A-359. Screw connection.

Size of Governor	¾	1	1¼	1½	2	2½	3	3½	4	4½	5
Diam. of Base Flange	4½	5	5	5½	7	8	9	9	10	11	12
Diam. of Side Flange	4½	5	5	5½	6½	7	8	8	9	9½	10
Height in Inches	16½	19	22	24	28	32	34½	37	39	42	44
Radius of Balls	2⅜	3½	3½	3¾	4½	5	5⅝	5⅜	5¾	6	6½
Length of Shaft	7	7½	8½	9	12	14	16	16	16	17	17
Diam. of Pulley	1½	1½	2	2	2½	3	3½	3½	3½	4	4½
Width of Belt	1	1¼	1½	1½	2	2½	3	3	3	3	3
Center of Body to Side Flange	2½	3½	3½	3⅞	5	5½	6	7	7½	7½	8½
Center of Body to Base Flange	2⅜	3½	3½	4½	4½	5½	5½	6½	7	7½	8½
Number of Revolutions	625	525	475	425	375	350	320	290	290	250	220
Price, each	$ 8.50	9.50	11.00	12.50	15.00	20.00	25.00	30.00	36.00	41.00	45.00

ROLLER TUBE EXPANDERS.
Dudgeon Pattern.

No. 4-A-360. This Expander has a solid body, thus avoiding constant breaking of cap screws. It is made with great care, of the best material and finely finished. Sizes given are for outside diameter tubes. If your tube measures 2 inches outside diameter you would then require a 2 inch Expander.

Size Inches	Price Each	Size Inches	Price Each
1¼	$1.34	2½	$1.65
1½	1.36	3	2.45
1¾	1.38	3½	3.00
2	1.40	4	3.75
2¼	1.60		

BEADING TOOL.

No. 4-A-361. This for beading end of boiler tubes.

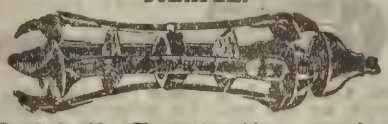
Price, each **$0.60**

SELF FEED TUBE CUTTER.

No. 4-A-364. A tool with which tubes can be cut off either inside or outside of the boiler head. The entire tube is made of special steel with a view of giving the very best wearing qualities. The feed handle is swivel, in order to get close to the boiler shell. This tool will pay for itself in cutting out oil tubes in a 60 inch boiler. Full directions with each cutter. Sizes refer red to are tubes outside diameter.

Size Inches	Price Each	Size Inches	Price Each
2	$ 9.10	3	$13.00
2½	9.10	3½	14.00
2¾	9.10	4	15.00
2¼	10.40		

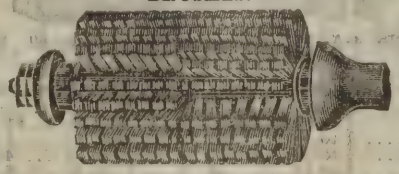
ENGINEERS' FAVORITE FLUE SCRAPER.



No. 4-A-362. Has adjustable screw end good cutting edges that enables the operator to clean flues thoroughly. Sizes given are for tubes outside diameter.

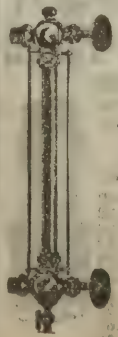
Size Inches	Price Each	Size Inches	Price Each
1½	$0.40	2½	$0.56
1¾	.44	3	.67
2	.45	3½	.78
2¼	.50	4	.90

IMPROVED EXPANSION FLUE BRUSHES.



No. 4-A-363. Made of malleable iron and tempered steel. Sizes given are for flues outside diameter.

Size Inches	Price Each	Size Inches	Price Each
1½	$0.65	2½	$0.86
1¾	.68	3	1.05
2	.69	3½	1.22
2¼	.78	4	1.38



WATER GAUGES.

No. 4-A-368½. With brass body, iron wheels, two guards to protect glass tube.

Pipe Size, Inches	Glass Inches	Price Each
⅜	⅜x10	$0.70
½	⅜x12	.75
⅝	¼x16	1.25

STEAM GAUGES.

No. 4-A-366. Japanned iron case, brass ring, complete with cock. They should not be used on traction or portable rigs. Always use a syphon with all steam gauges. These gauges are guaranteed to register accurately up to 200 lbs. Each gauge is packed in a wooden box.

Size Dial, Inches	3½	4½	5
Price, each	$0.98	1.05	1.10

STEAM GAUGE SYPHON.

No. 4-A-367. A syphon should be used in connection with all steam gauges.

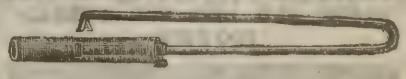
Size, Inches	Price, each
½	$0.12

STEAM GAUGE FOR TRACTION ENGINE.

No. 4-A-368. For use in connection with traction and portable rigs. Made with double spring and will stand jarring and register accurately. Size 5 inches; graduated to 300 lbs.

Price **$1.80**

GAUGE GLASS CUTTER.



No. 16-A-18. A satisfactory tool which will save its cost many times over.

Price, each **$0.25**

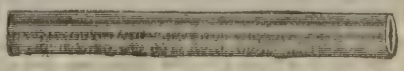
RUBBER GAUGE GLASS WASHERS.

No. 4-A-370.

	Price per doz.
For ⅛ inch gauge glass	$0.06
For ¼ inch gauge glass	.07
For ½ inch gauge glass	.08

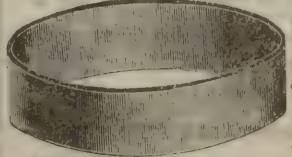
GENUINE SCOTCH GLASS TUBES FOR WATER GAUGES.

No. 4-A-369.



Lgth. in.	Price for six ⅛ in.	Price per doz. ¼ in.	Price for six ⅜ in.	Price per doz. ⅜ in.	Price for six ½ in.	Price per doz. ½ in.
10	$0.20	$0.39	$0.24	$0.39	$0.28	$0.48
11	.22	.43	.25	.43	.28	.48
12	.24	.46	.26	.45	.32	.58
13	.28	.54	.28	.53	.38	.63
14	.28	.55	.29	.54	.38	.68
15	.30	.58	.30	.57	.42	.73

TUBE FERRULES.



No. 16-A-369½. Seamless Copper Boiler Tube Ferrules. Used on ends of boiler tubes to make a perfect fit and a tight job.

For Boiler Tubes Outside Diameter.	Width Inches.	Thickness of Copper ins.	Price Ea.
1¼	¼	1-32	.03
1½	¼	1-32	.03½
1¾	¼	1-32	.04
2	¼	1-32	.05
2¼	¼	1-32	.06
2½	¼	1-32	.07
3	¼	1-32	.18
3½	¼	1-32	.12
4	¼	1-32	.14

MALLEABLE PIPE STOCKS AND SOLID STEEL DIES $2.20

No. 4-A-371. In the manufacture of the dies it has been our aim to furnish a die of unusual cutting qualities. To do this it has been necessary to use a higher grade of steel than has heretofore been employed in the manufacture of pipe dies. We will guarantee that every die has a perfect clearance and will cut a clean thread. When cutting threads use plenty of oil. Lard oil is recommended for this purpose.

Set No. 0.

Pipe size of dies, regular set, inches	⅛	¼	⅜	½
Dimensions of dies, inches	2x2x½			
Price complete per set, with dies.	$2.20			

Set No. 1.

Pipe size of dies, regular set, inches	½	⅝	¾	1
Dimension of dies, inches	2½x2½x¾			
Price per set, complete with dies	$3.00			

Set No. 1¼.

Pipe size of dies, regular set, inches	1	1¼	1½
Dimension of dies, inches	3x3x¾		
Price per set, complete with dies	$2.70		

Set No. 2.

Pipe-size of dies, regular set, inches	1¼	1½	2
Dimension of dies, inches	4x4x¾		
Price per set, complete with dies	$4.00		

Set No. 3.

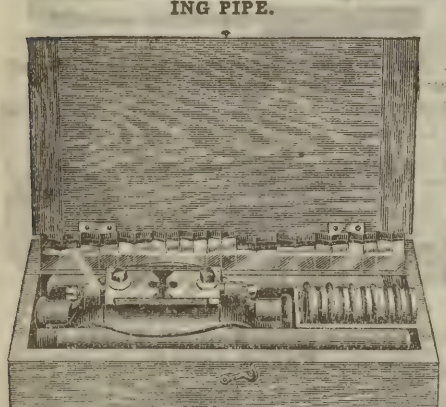
Pipe size of dies, regular set, inches	2½	3
Dimension of dies, inches	5x5x1¼	
Price per set, complete with dies	$11.50	

EXTRA DIES AND GUIDES.

No. 4-A-372. These can be furnished either right or left hand thread. In ordering, be sure and state which. Unless otherwise specified dies with right hand threads will invariably be shipped.

Dimension of Dies, inches	Pipe Size of Dies	Price of Dies	Price of Guides
2 x2 x ¾	⅛, ¼, ⅜, ½, ¾	$0.33	$0.07
2½x2½x ¾	⅛, ¼, ⅜, ½, ¾	.42	.08
3 x3 x ¾	⅛, ¼, ⅜, ½, ¾, 1, 1¼, 1½	.65	.10
4 x4 x ¾	⅛, ¼, ½, 1, 1¼, 1½, 2	.83	.12
5 x5 x1¼	2½, 3, (right hand only)	2.50	.27

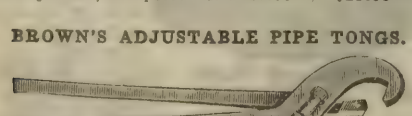
ARMSTRONG PATTERN ADJUSTABLE STOCK AND DIES FOR THREADING PIPE.



No. 4-A-373. The dies are standard in size, and are easily adjusted to the variations and size of pipe. The taper at the entrance of the first few threads is greater in degree than the standard taper, thus forcing six of the teeth of the die to do the work of the cutting instead of two or three as in the ordinary die. This causes them to start on the pipe very easily, even though it is burred considerably. Each set is finely finished and packed in a hard wood box.

Set No. 2. Pipe Size of dies, inches	¼	⅜	½	¾	1
Price per set, complete with dies	$3.20				
Set No. 2½ Pipe size of dies, inches	½	¾	1	1¼	
Price per set, complete with dies	$3.20				
Set No. 3. Pipe size of dies, inches	1¼	1½	2		
Price per set, complete with dies	$5.00				
Set No. 6. Pipe size of dies, inches	2½	3			
Price per set, complete with dies	$13.00				
Set No. 7. Pipe size of dies, inches	3½	4			
Price per set, complete with dies	$15.00				

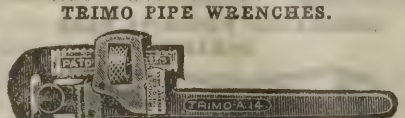
BROWN'S ADJUSTABLE PIPE TONGS.



No. 4-A-377. Made of solid steel, drop forged.

Size No	1	1½	2	3	4
Takes pipe sizes, in	⅛ to ¾	⅜ to 1	1¼ to 1½	1 to 2	1½ to 3
Price, each	$ 0.58	.69	.82	1.15	2.55

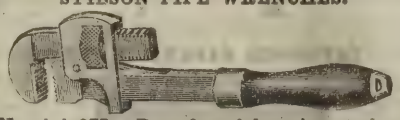
TRIMO PIPE WRENCHES.



No. 4-A-374. Drop forged from bar steel, removable jaw and nut. Are made with round top and bottom, threads guaranteed not to strip or burr. All the parts are interchangeable and can be renewed at small expense.

Lgth In.	Takes Pipe In.	Price Each	Lgth In.	Takes Pipe In.	Price Each
6	⅛ to ½	$0.58	18	½ to 2	$1.18
8	⅛ to ¾	.60	24	½ to 2½	1.75
10	⅛ to 1	.68	36	½ to 3½	4.25
14	¼ to 1½	.88	48	1 to 5	6.40

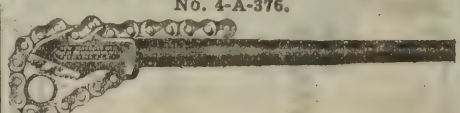
STILSON PIPE WRENCHES.



No. 4-A-375. Drop forged from bar steel. All parts interchangeable and every wrench fully guaranteed.

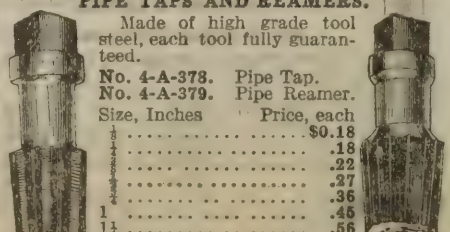
Lgth In.	Takes Pipe In.	Price Each	Lgth In.	Takes Pipe In.	Price Each
6	⅛ to ½	$0.57	18	⅛ to 2	$1.15
8	⅛ to ¾	.58	24	¼ to 2½	1.75
10	⅛ to 1	.67	36	¼ to 3½	4.25
14	¼ to 1½	.88	48	1 to 5	6.25

BROCK'S NEW STANDARD PIPE WRENCH. No. 4-A-376.



Size, inches	1	2	3	3½	4
Length, inches	20	27	37	44	50
Capacity, inches	⅛ to 2	1⅛ to 3	⅜ to 6	1 to 8	½ to 10
Price, each	$1.58	2.34	3.23	4.45	5.50

PIPE TAPS AND REAMERS.

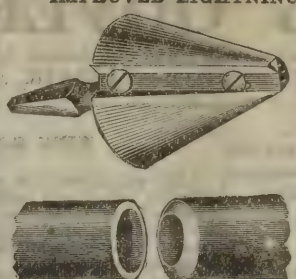


Made of high grade tool steel, each tool fully guaranteed.

No. 4-A-378. Pipe Tap.
No. 4-A-379. Pipe Reamer.

Size, Inches	Price, each
⅛	$0.18
¼	.18
⅜	.22
½	.27
¾	.36
1	.45
1¼	.56
1½	.64
2	.88

IMPROVED LIGHTNING REAMER. No. 4-A-330.



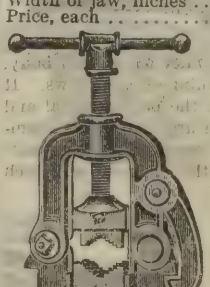
The single cutting blade, set in the hardened steel holder, cuts smoothly, steadily and evenly, taking an even chip like a plane without digging in, catching and sticking. This cutter being triangular in shape has three cutting edges and may be turned, presenting each time a fresh edge for the work. It also may be shifted lengthwise for the same purpose. The stock of holder remains good indefinitely. Cutters made of finest steel can be renewed at a small cost. Illustration shows pipe ends before and after burring, which will readily convince of the great saving in pipe capacity can be gained by using this tool.

Pipe size, inches	¼ to 2
Diameter at point, inches	⅞
Diameter at largest part, inches	2¼
Length of cutter, inches	2¾
Price, each, complete with one cutting blade.	$1.50
Extra cutting blades, each	.12

SMITH'S COMBINATION PIPE VISES.

No. 4-A-381. Can be used as a swivel or stationary bottom. Pipe jaws are reversible. Vise can be used either for pipe or as a parallel machinist's vise.

Size No	1	2	3
Weight, lbs	45	70	105
Capacity, inches	⅛ to 2	⅛ to 2	⅛ to 4
Width of jaw, inches	3½	4	4½
Price, each	$4.50	$5.70	$8.40

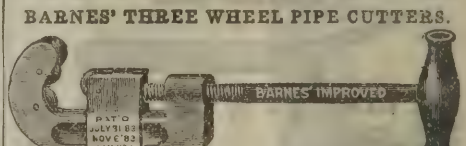


OPEN HINGE MALLEABLE PIPE VISES.

No. 4-A-382. Made with steel jaws, which are interchangeable. Vise is self locking, heavily constructed. The jaws and every part of vise are fully guaranteed.

Size No	1	2	3
Capacity, inches	⅛ to 2½	⅛ to 3½	⅛ to 4½
Price, each	$1.10	$1.60	$2.60

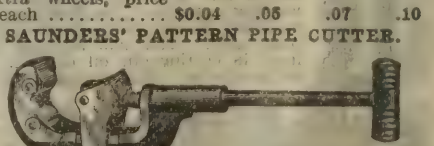
BARNES' THREE WHEEL PIPE CUTTERS.



No. 4-A-383. Made of malleable iron. Steel pins and cutting wheels are made of highest grade crucible steel, oil tempered. This style cutter is especially suited to use in that class of work where it is impossible to revolve cutter entirely around pipe.

Size No	1	2	3	4
Cuts pipe, inches	⅛ to 2	⅛ to 2	1½ to 3	2½ to 4
Price, each	$0.80	$1.05	$1.80	$3.50
Extra wheels, price each	$0.04	.05	.07	.10

SAUNDERS' PATTERN PIPE CUTTER.

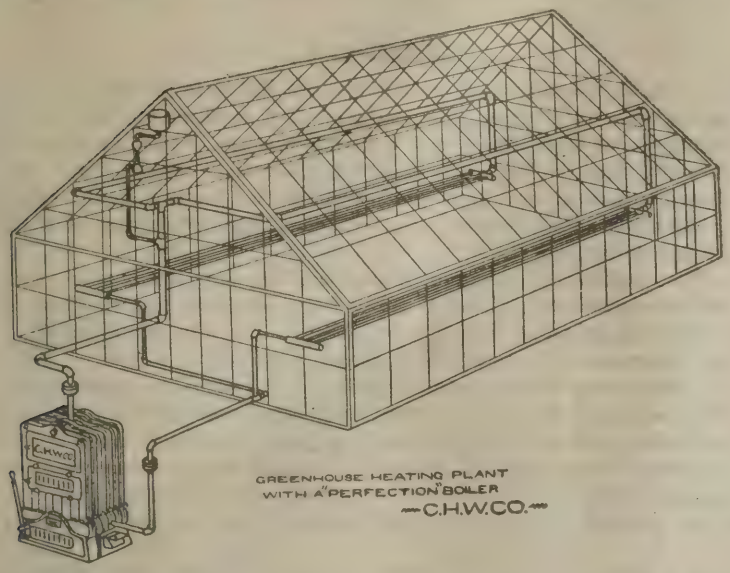


No. 4-A-386. Is suitable for work where the cutter can be revolved entirely around the pipe and leave practically no burr. The pins and the cutter wheels are made of the best grade of crucible steel, oil tempered.

Size No	1	2	3	4
Cuts pipe, inches	⅛ to 1	⅛ to 2	2 to 3	2½ to 4
Price, each	$0.60	$0.90	$2.20	$3.60
Extra wheels	$0.05	.06	.12	.13

A Heating Plant For Your Greenhouse

We Can Quote You a Price That Will Surprise You



GREENHOUSE HEATING PLANT WITH A "PERFECTION" BOILER —C.H.W.CO.—

We Guarantee Every Plant We Sell

We make a specialty of greenhouse heating plants. We have furnished all of the material and made all the plans for some of the largest greenhouses in the country.

We Furnish Everything

to the very last detail that you will require, and especially are we in position to quote you very low prices at this time, owing to the fact that we recently bought up, at a Receivers' Sale, an enormous quantity of greenhouse fittings which we are now disposing of at prices that do not represent the actual cost of manufacture.

By working in these fittings on your plant and our 4-inch threaded boiler flues, together with a good sound Horizontal Tubular or Fire Box Boiler, we can save you anywhere form 50 to 75 per cent on your greenhouse heating plant.

To Beginners—Are You Starting in the Business?

We can make your capital go further than you ever estimated. Let us know the size house you are building. Send us a sketch, mark the benches and the total square feet of glass, also where you want boiler located. Our engineers will figure a plant for you and we will send specifications and a complete proposition by return mail. There is no better paying business than a good greenhouse. We make it possible to start with a limited capital.

To Greenhouse Men

Is your present capacity too small? If it is, you are losing good business. Increase it. It is not hard to add on another house or two. We can arrange it so that you will not have to disturb one fitting on your present greenhouse and if your present boiler is too small, we can furnish you with a larger one at a very reasonable figure.

We furnish complete plans and loan you tools if you desire. Our very clear instructions and plans which are almost pictures, are very easy to follow and any ordinary mechanic can do the work for you.

Mercury Hot Water System for Greenhouses

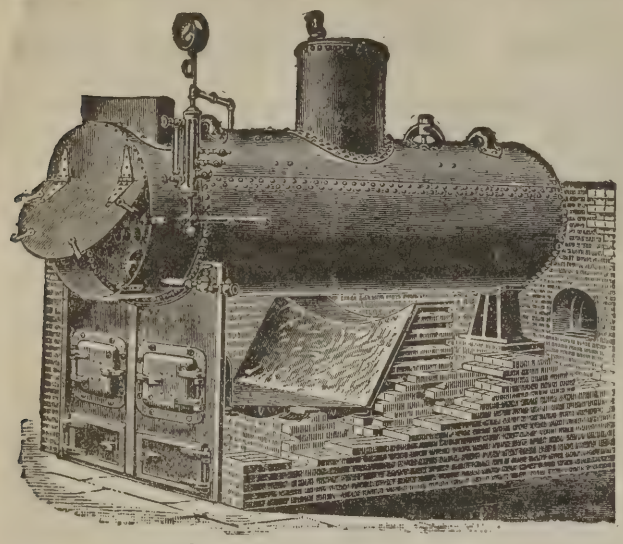
We are in a position to furnish the most up-to-date system of hot water heating known to engineering science at the present time.

This system combines all the advantages of a steam and hot water plant and does away with the disadvantages of both. The circulation of the system is increased over 50 per cent by using our mercury heat circulator, and by getting a much higher temperature in the water the efficiency of the plant is advanced to the highest possible point.

If your present heating plant is not large enough to heat your greenhouse properly, add one of our mercury heat circulators to your system and you will be surprised at the change which will result.

We furnish complete instructions with each mercury heat circulator showing how to make all connections, etc.

Low Priced Greenhouse Heating Plants



Horizontal Tubular Boilers.

A Boon to Greenhouse Men.

Boilers.

From the very nature of our business, our ability to furnish you with a good boiler for a price before unheard of, is undisputed. The entire country is our field. We buy up boilers everywhere. There is a constant stream of them coming in and going out of our plant all the time. We always have in our yard from one to two hundred to select from. Some of these have seen only one year service and a large percentage of them are only three years old.

We would rather lose an order any time than send out a boiler that would not give satisfaction. Every boiler which comes into our plant is immediately subjected to a rigid inspection. If it does not stand up to the requirement, it is consigned to the scrap pile.

Those boilers which pass inspection are taken to our boiler shop, which we have fully equipped with the latest tools and devices and tested to the high pressure before they leave our plant. No boiler is allowed to go through incomplete. Any missing casting or grate bars or other parts are always secured and furnished by us, unless otherwise agreed.

These boilers have never yet been surpassed for fuel economy and simplicity. The most expert authorities admit that this boiler stands alone on these two points.

We back this form of boiler for greenhouse heating, against any of the special boilers on the market at the present time. The only advantage that can be claimed in favor of these special boilers is the fact that they can be set lower. We can show you how to arrange these Tubular boilers with a low setting and we will guarantee just as good results.

Fire Box Boilers.

We always have on hand a large assortment of Fire Box Boilers. This form of boiler is the most economical you can install, the entire fire box being surrounded by water. Every heat unit in the fire is taken up. These boilers can be set as shown in this illustration so that the entire outside of the boiler is used as heating surface, or, you can arrange it that no brick work whatever is required, the boiler being entirely self-contained. This latter arrangement would get away from any further expense in setting and there would be no further cost, except the actual cost of the boiler.

For Small Plants.

For a small greenhouse where it is impossible to use these larger forms of boiler, we recommend our small cast iron Perfection boilers. You could not possibly use a better boiler. Cracking of the casting is an impossibility in a small boiler of this kind. They are compact, self contained and easily handled. These boilers have a very deep fire pot and hold fire for twelve hours at a time.

Pipe.

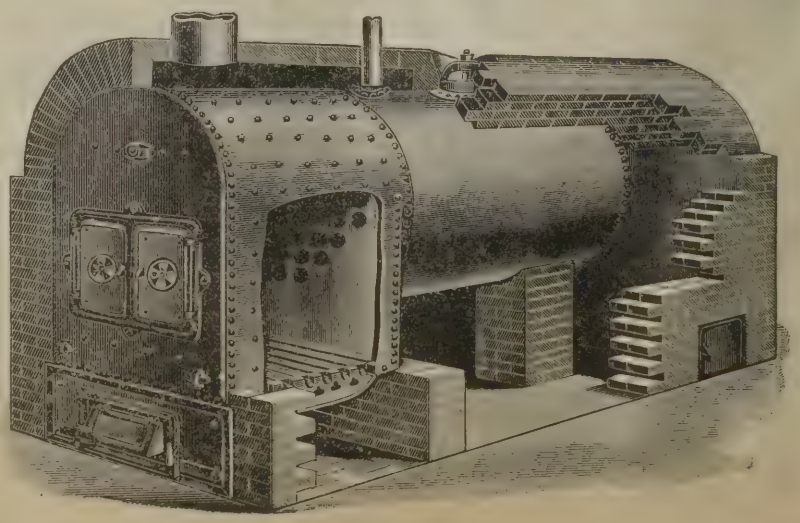
We always have on hand several thousand feet of second hand pipe and boiler tubing of every description. Every length of this pipe that we send out for further service is carefully inspected before it leaves our plant. All defective lengths are carefully cut out and discarded. We furnish all our standard black wrought iron pipe with brand new threads and couplings, no old threads are allowed to pass through. This pipe is for all practical purposes just as good as brand new. You can make a large saving by using this material and when your plant is installed, it will give you just as good satisfaction as if it were brand new.

Boiler Flues for Greenhouse Heating.

We are the originators of this idea. As a heat radiator and economical piping for greenhouses, this tubing has never yet been surpassed. We have already sold hundreds of thousand of feet of it to greenhouse men and it gives universal satisfaction. We can furnish this tubing with threads and couplings and it can be made up just like standard pipe.

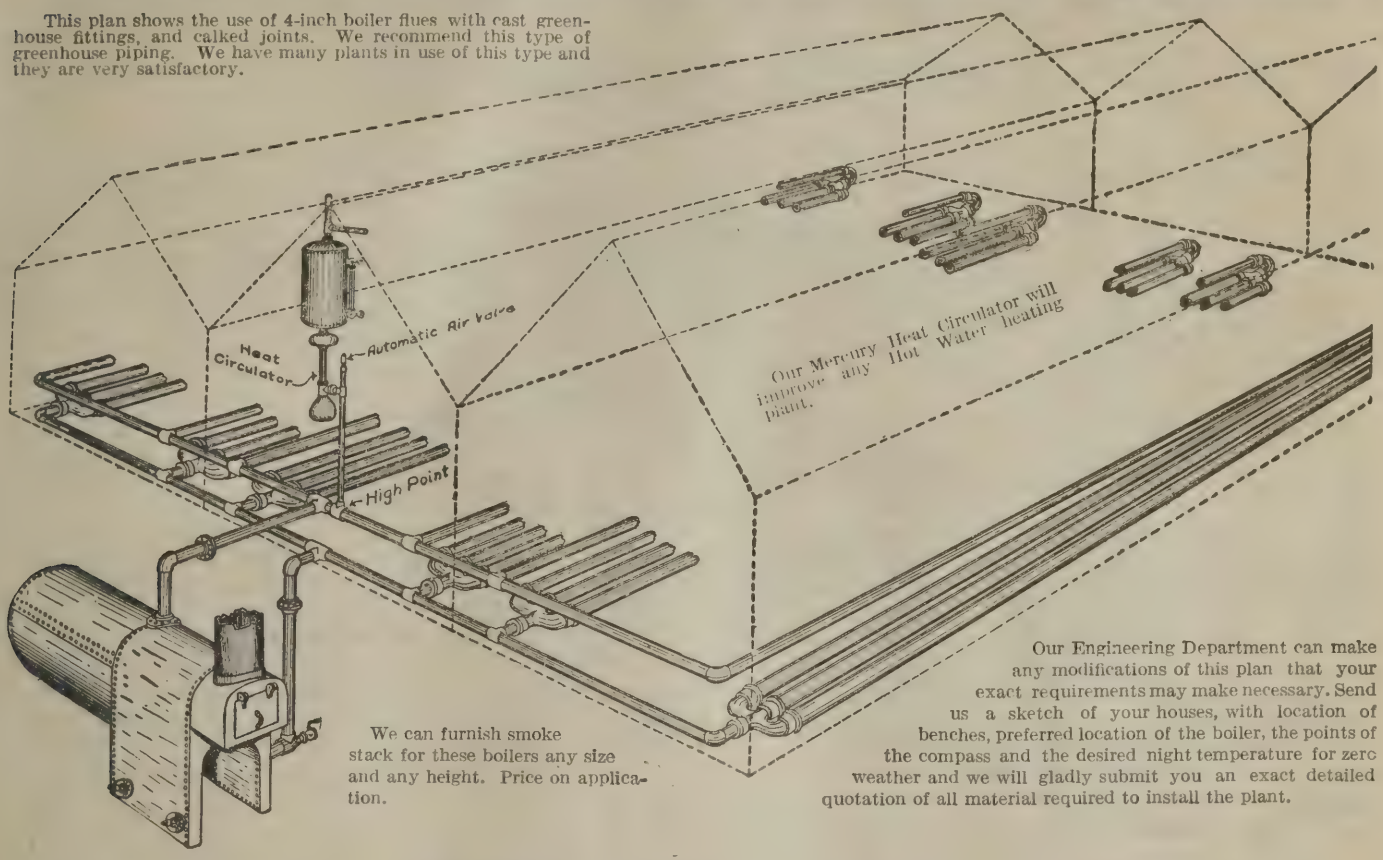
Greenhouse Fittings.

We can save you 40 per cent on your plant on the fittings alone, owing to the very low prices that we can quote you on these fittings. If you will need any fittings, be sure and send us a list and get our figures before taking any action.



Complete Greenhouse Heating Systems.

This plan shows the use of 4-inch boiler flues with cast greenhouse fittings, and calked joints. We recommend this type of greenhouse piping. We have many plants in use of this type and they are very satisfactory.



We can furnish smoke stack for these boilers any size and any height. Price on application.

Our Engineering Department can make any modifications of this plan that your exact requirements may make necessary. Send us a sketch of your houses, with location of benches, preferred location of the boiler, the points of the compass and the desired night temperature for zero weather and we will gladly submit you an exact detailed quotation of all material required to install the plant.

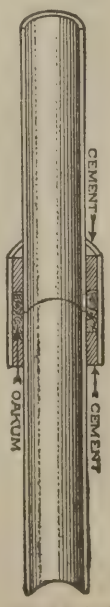
Boiler Flues For Piping.

No. 17-A-1
Boiler Flue with sleeve couplings

We carry a large stock of material suitable for heating greenhouses. In heating greenhouses the consideration of the cubical contents may be overlooked, as the glass exposure is so great as to constitute almost the sole cause of loss of heat. We do not consider steam in a greenhouse as good as hot water, but it has some advantages in very large greenhouses. We would, however, never recommend steam for houses having less than 2,000 square feet of glass.

In a hot water greenhouse heating system, the best thing to use for radiation is 4 inch pipe. It contains one square foot of heating surface to each lineal foot of pipe, and there is such a large volume of water held in this pipe that it is a safeguard against sudden atmospheric changes on the outside. All things considered, we consider 4 inch boiler flues the finest of all pipe to use for greenhouse heating. We furnish these boiler flues in random lengths from six to twenty feet each. They are joined together with sleeve couplings, as we show in the above illustration with calked joints. These sleeve couplings are made of larger diameter wrought iron pipe so that there is no danger of splitting them even though they are tightly packed. These boiler tubes are used in connection with cast iron greenhouse fittings with hub ends, as we show elsewhere in this catalog.

Price for specially selected boiler tubes in random lengths, thoroughly cleaned, with sleeve couplings.....**15** cents per foot
Price for the boiler tubes only, without the sleeve couplings.....**10** cents per foot



No. 17-A-2
Section view showing joint

Specially Threaded Boiler Flues.

We are also in a position to furnish these boiler flues with special casing thread, and with threaded couplings, so that they can be made up the same as threaded pipe is made and can still be used with the calked joint greenhouse fittings at the end of the run. These boiler flues are practically the same strength as wrought pipe. They are lighter and are furnished for much less money.

Price, 3½ inch, threaded as above, including the cou lings, per foot.....**$0.14**
Price, 4 inch, threaded as above, including the couplings, per foot..... **.18**

Greenhouse Heating Boilers.

We have two hundred boilers on hand, suitable for greenhouse heating, in the following types:

Cast Iron Sectional Boilers. Locomotive Fire Box Boilers
Horizontal Tubular Boile . Kroeschell Greenhouse Boilers.
Herbert Return Flue Boilers.

Price on these boilers quoted on application.

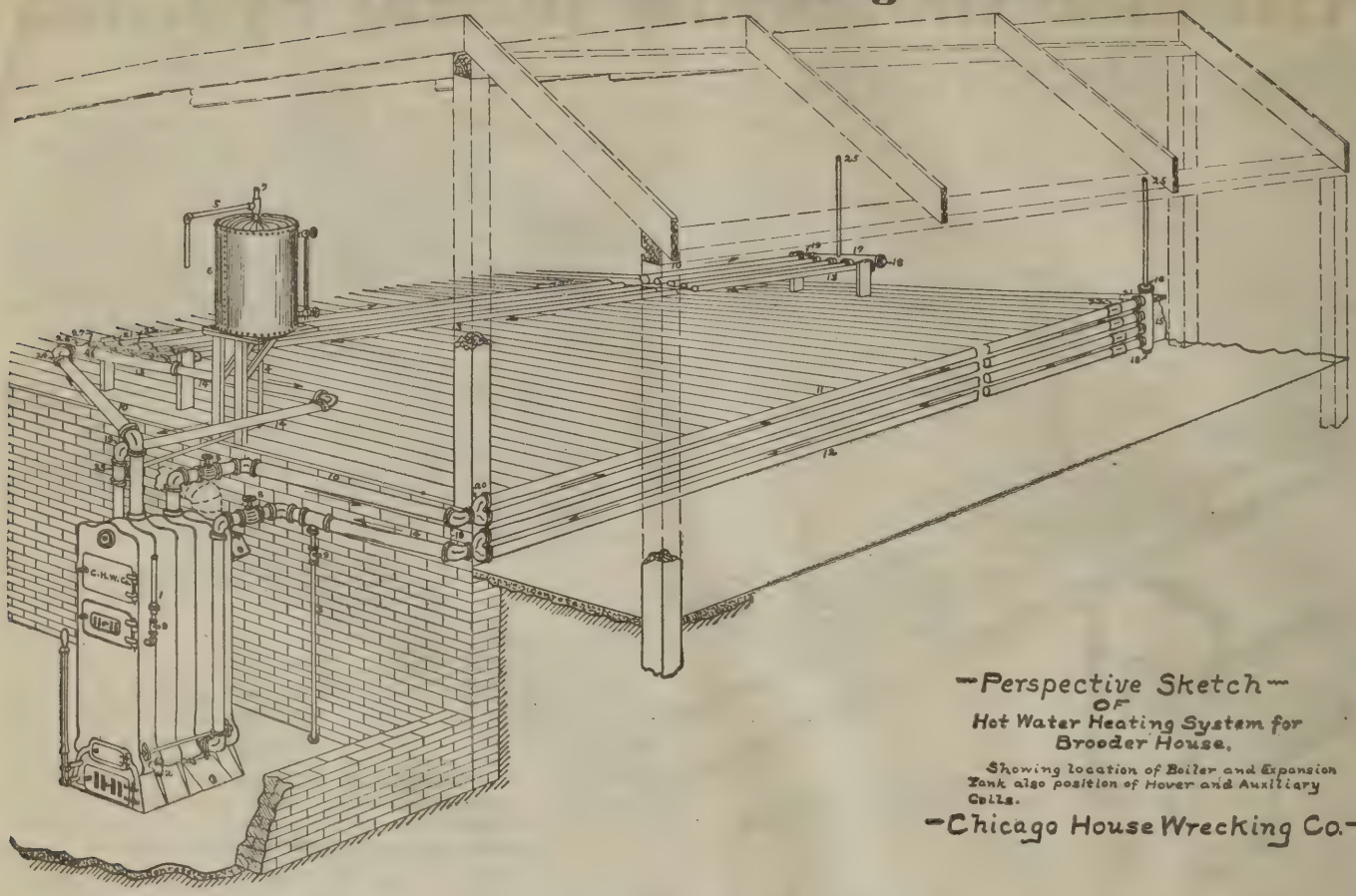
Complete Greenhouse Heating Plant.

If you will send us a sketch of your greenhouse, showing the location of the benches, preferred location of the boiler, location of the door, etc., we will figure up for you a complete greenhouse heating plant, all the pipe, pipe fittings, required, the boiler, with or without smokestack, and all the valves, etc., to install the complete plant and make you a special quotation.

Calculating The Radiation Needed.

In heating greenhouses the consideration of cubical contents may be overlooked, as the glass exposure is so great as to constitute almost the sole cause of loss of heat. To heat, a greenhouse from 50 to 60 degrees night temperature in zero weather with hot water using our Mercury Heat Circulator we would figure one square foot of radiation to 3½ square feet of glass. To heat a greenhouse from 60 to 70 degrees, one square foot of radiation to 2¾ square feet of glass. In figuring steam plants, we figure twenty-five per cent less heating surface than with hot water.

Brooder House Heating Plants.



—Perspective Sketch—
OF
Hot Water Heating System for Brooder House.
Showing location of Boiler and Expansion Tank also position of Hover and Auxiliary Coils.
—Chicago House Wrecking Co.—

The illustration on page 49 shows in full a hot water heating plant for a chicken brooder house. As the plant is designed, it is supposed that the house will be fifty feet long, sixteen wide and eight feet high at the highest point. It would have a submerged walk some twelve or fourteen inches below the floor of the brooder pens proper, four feet wide, and the floor space of the brooder pens would be twelve feet wide, and it will be partitioned across part way to the ceiling dividing the brooder pens from the walk. The line of pipe running through the center of the brooder pens is supposed to run through the hover which will be made sixteen inches wide and twelve inches high, and the top will be covered over with boards having suitable vent slides in them and the two sides protected with little canvas curtains that can be dropped down so as to keep this space within the hover at a temperature of 90 to 100 degrees. There is one 2″ flow running from the boiler to the manifold at the further end of the brooder house and then the returns come back in four 1¼″ pipe. There is an auxiliary heating coil controlled with valves placed in the walk and in very severe weather this can be used to raise the general temperature of the brooder house to a satisfactory degree of heat.

BROODER HOUSE HEATING OUTFIT NO. 17-A-3.

The plant we illustrate is **Our Brooder House Heating Outfit No. 1,** and is for a fairly large house and contains one of our No. 64 Perfection cast iron sectional heaters, and the necessary pipe to install the outfit as shown in our illustration is a fifty-foot house, and we will furnish all the material to install this plant just as we show it, with the exception of the smoke pipe for the heater for....**$95.00**

We can furnish larger outfits than this and will submit prices on application.

BROODER HOUSE HEATING OUTFIT NO. 17-A-4.

We have plants for smaller houses than this. Our brooder heating outfit No. 2 consists of heating apparatus for a house of the same width and height as above, but twenty-five feet long and is without the auxiliary heating coils in the walk. For this house, we figure one of our No. 15 tank heaters. This has a fire pot thirteen inches in diameter and twelve inches deep, fitted for seven inch smoke pipe and has 1½″ inlet and outlet connections. It has a flat top on which you can place a boiler to mix and cook chicken feed. It is equipped with the best shaking grate and will easily supply all the heat needed for the brooder coils for this size house in the coldest weather. Our special price of this complete outfit, consisting of the No. 15 tank heater and expansion tank and all the necessary pipe and pipe fittings to install this as shown in the illustration for a twenty-five foot house is.....**$45.00**

BROODER HOUSE HEATING OUTFIT NO. 17-A-5.

Brooder house heating outfit No. 3 is for a brooder house fifty feet long, sixteen wide and eight feet high, same as the above two houses, with only the heating coils in the hover, without the auxiliary coils in the walk. This consists of one of our No. 16 heaters, which has a fire pot thirteen inches in diameter and fifteen deep and fitted for seven inch smoke pipe and 1½″ connections. It has the same flat top as described above, so that it can be used for warming or cooking the chicken feed, and our special price for this outfit, consisting of the heater, expansion tank, pipe and pipe fittings to install the coils as shown in our drawings is.....**$55.00**

BROODER HOUSE HEATING OUTFIT NO. 17-A-6.

Brooder house heating outfit No. 4 consists of material for heating a twenty-five foot house with the hover coils and auxiliary heating coils in the walk. This is just as we show in our illustration, except that the house is but twenty-five feet long instead of fifty feet. The heater is one of our No. 17 tank heaters which has a fire pot thirteen inches in diameter and eighteen inches deep, fitted for seven inch smoke pipe connections. It has the same flat top as the others so that the poultry food may be cooked on it. We will furnish all the material for this outfit except the smoke pipe, material consisting of the necessary pipe and pipe fittings to install both coils as shown in our drawing, expansion tank, etc., for.....**$70.00**

Modern Steam and Hot Water Heating Plants

We furnish the most up-to-date systems in existence. Everything guaranteed absolutely brand new and perfect. Every plant backed with our guarantee bond. Write at once for our information blanks. Make up a sketch of each floor of your home, giving us the size of the rooms, etc., as called for on these blanks and we will make you a complete proposition on the entire heating plant by return mail. You will be surprised at the prices we can make you.

We fit you out complete; loan you tools; make you up complete plans and instructions and give you every possible assistance. Are you interested in a modern heating system for your home? Write at once for our special complete Heating Catalog, which fully covers our heating proposition.

What Our Heating Plants Are

Every heating plant we sell under our Guarantee Bond is absolutely brand new and perfect at every point. All fittings are brand new, standard cast iron fittings, reinforced and beaded. The valves are solid brass, heavily nickel plated; Pipe brand new; Radiators and Boilers of the latest and most modern design; cast from soft iron, prepared in a special process cupola, which reduces the possibility of castings cracking to a minimum.

The radiation is carefully estimated and scientifically proportioned throughout your house and the plant carefully designed by our engineers and the entire plant is perfect, beyond criticism.

Every statement is backed by our reputation and capital. We are in business to stay and will carry out every contract to the letter.

What You Can Expect

We emphasize these facts, so that you will know what to expect in the way of quality when you place an order for a heating plant.

We want to dispel from your mind, right here, before going one step further, any false impressions that you make have in regard to the material, which we furnish you on your heating plant, not being strictly just as high grade in every way as any material which your home dealer or any other concern may undertake to furnish you, at probably an advance of 50 or 100% over our price. We represent our material just exactly as it is and we give you the absolute privilege to return it at our expense and we will refund your money, if, on its arrival, or after you get the plant installed, you do not find it strictly up to representation in every way.

An Instance

We might recite herewith an instance of a customer of ours in Indiana who placed an order with us for a complete heating plant for his building at a saving of anyhow, 50% from the price which his home dealer had made him. He put the proposition before his home dealer and told him of the very low price which he was in position to buy his material from us, and of course, as the usual custom, the dealer started to hammer on the superior quality of his material in comparison to ours. He said, "When you get these radiators from the CHICAGO HOUSE WRECKING people, you will not be able to lay a board across the top of the radiator, it will be so far out plumb." This is a fair sample of the line of talk which these dealers use in trying to bias people's minds against our material.

We will say, however, that this customer of ours, while somewhat disheartened at these statements, patiently waited until his material arrived, and then, after taking the radiators up and placing them in his rooms and getting them out on the floor where he could see what they looked like, he tried the experiment of placing a board on the top of the radiator, as suggested by his home dealer and he then invited his dealer in to see the board laying flat on the top of the radiator without 1/16 of an inch in variation from one end of the radiator to the other. Of course, he then had to admit that the radiators were certainly plumb, but he further started to worry our customer by saying, "Oh, the radiators are all right, but wait until you get the plant installed and see how it works, then you will see your mistake." This particular plant is installed today and it is as fine a heating plant as is in the entire country at the present time and this customer has saved a cool $150.00 by purchasing this plant of us.

Low Cost

Heretofore, a good Steam or Hot Water Heating Plant was only within the reach of the fabulously rich and sometimes the cost of a good Hot Water Heating Plant for a fair sized building would run up to as high as $2,000. Think of it. We know this to be a fact. We have received letters from parties who paid 100% more for their plants than we could have furnished them and they could not possibly believe that we could furnish a complete hot water heating plant for a building at such a ridiculously low figure, until they came right here to our plant. After we carefully showed them the exact pattern of radiators, boiler, piping and the high-grade nickel-plated valves, etc., that we furnish on all our plants, it was only then we could convince them.

Our Guarantee Bond

We publish elsewhere in this catalog a facsimile of our ironclad guarantee bond. This bond amounts to nothing less than an absolute 365-day free trial proposition. In other words, any time within one year after date of sale of your plant, if you find that it is not up to representation in every way and entirely satisfactory, we give you the privilege to return it at our expense and we will refund your money in full.

We have such absolute confidence in the quality and merits of our plants that we do not hesitate to make this proposition and we leave it with you to be the fair judge in the case, as to whether the plant has come up to our claims or not.

We Know What Our Plants Will Do

How is it possible for us to put out such a broad guarantee on these heating plants, leaving the matter of installing entirely in your hands, even though you have never had the least experience in steam fitting or installing plants of this kind? You will probably wonder how it is possible for us to offer such a one-sided proposition as we do. The secret of the entire matter is confidence.

We have such absolute confidence in the merits of our plants and what they are capable of doing, that we consider the claims as advanced in our guarantee to be very mildly stated indeed. It is no guess work with us.

We know just what our material is and we do not hesitate to make just claims for it, and as far as the work of the plant is concerned, we know just what temperature you can expect in every room in your house, just as we know that two times two make four.

If you have written us for an estimate and filled out our blanks, you have given us the total square feet of glass surface in each room and we can tell from your plans the exact amount of wall surface that is exposed and we have the exact size of each room, and with this information in our possession, by application of proper formulas, we can figure out to a fraction the exact degree of temperature that you can expect with a minimum degree of temperature outside, and this depending upon the minimum temperature which you experience in your locality and which you furnish us with the information that we ask on our blanks.

The Successful Working of Every One of Our Plants Guaranteed

As Sure as the Rising and Setting of the Sun

You can no doubt readily see that figuring with exact formulas scientifically correct we know just what to expect from a given sized radiator. Our expert engineers figure all this up very carefully, and there is absolutely no guess work whatever about the matter at any point on the entire plant. Even the most insignificant elbow on the system has been very carefully determined by the most up-to-date formulas in use for determining pipe sizes, etc., and everything is figured out to a scientific accuracy.

Operating under such a system, you can readily see that, after all, it is not a hard matter for us to give you such an absolute guarantee bond, as to what results you can expect from your plant; the successful working of your plant, after it has been designed under a system of this kind, is just as sure as the rising and setting of the sun.

Our Mercury System

Our Mercury System of Hot Water Heating, which we use exclusively, is positively the top notch of perfection for residence heating. We want you to read very carefully the detailed explanation of the theory and operation of our Mercury Heat Circulator, as given on page 25 of this book.

This Mercury device positively permits you to heat the water in your house to as high as 235 degrees in temperature, before it leaves the boiler, and this Mercury Heat Circulator is one of the strongest points of our system.

When you purchase a Hot Water Heating Plant of us, you can rest assured that you are getting the most modern and up-to-date system in existence at the present time. There are positively no improvements that are known to engineering science up to date that are not embodied in our system of Hot Water Heating.

We Make You Drawings

We furnish, with every heating plant that we sell, a complete detailed blue print plan, showing the location of every radiator and just how the piping is run in the basement; where the boiler is located, etc., the size of each pipe is plainly marked on the plan and there is positively no chance whatever of your not understanding fully just how to use the material that we ship you on your order.

Furthermore, we furnish with each plant, a detailed set of instructions, covering the most important points and those points that are most difficult to understand.

The very secret of the tremendous success of our plants, we think, is to a very considerable extent due to the very complete instructions and our blue print plans which we furnish with our plants. The chances of your going wrong are about one in a hundred. Furthermore, you always have the privilege to correspond with us, and any point that is not clear to you, we will do all we can to explain as fully as possible.

Our Engineering Staff

WE HAVE A LARGE FORCE OF EXPERT HEATING AND PLUMBING ENGINEERS constantly in our employ, whose entire time is devoted to the interest of our customers. When you order a heating plant of us, you secure the benefit of this highly skilled service. No rule of thumb methods go with us. We have this business down to an exact science and every radiator is figured to a fraction. When you purchase a heating plant of us, you can rest assured that you will have the right amount of radiation and the proper sized pipe in the right place, which is not always the case when you let the job out to a contractor who has never had the technical training required to properly figure up a plant of this kind. It requires scientific ability, judgment and experience to design a good heating plant and to figure correctly the amount of radiation required in any given building. The estimating is really the most important part of the entire work. If the plant is not properly figured, and if you don't have sufficient radiation in a given room to maintain the proper temperature, it would be better that you did not have the plant at all.

You Can Install It Yourself

Did you ever stop to think what a great pleasure it is to do a job of this kind yourself and know that it will be DONE RIGHT? The actual work is mere pastime, it is so interesting. An average heating plant can be installed in about six or eight evenings, and then think of the extreme joy when the plant is all ready for the test and you turn the water into it and start the fire and then find that it works beyond your wildest dreams. It is much more pleasure, knowing that you did the job yourself, than when somebody else does it for you.

Safe Delivery

We protect you absolutely on safe delivery of your plant, and should the radiators or the boiler or any of the castings become damaged in transit, all you have to do is to have your freight agent at destination make an acknowledgment of the fact and mark to what extent the item has been damaged and we will immediately duplicate your shipment and forward you a new radiator or whatever it may be, without delay, and you will be put to no inconvenience whatever in the matter, as we take the responsibility of the claim entirely on our own hands and we fight the claim through with the railroad company and see that proper settlement is made. All we ask you to do, is to have the freight agent mark an acknowledgment of the damage on the freight bill, when the material reaches destination.

Send For Our Estimate

Remember, you are under absolutely no obligations whatever to us for making you a figure on your heating plant. We are only too glad to figure up your complete plant and line up the entire proposition for you.

Get our information blanks first. These will post you fully on just what information is most important for us to have and it will avoid the necessity of corresponding back and forth. If you will carefully read over these blanks and answer all the various questions, we will be able to get our figures to you by return mail.

Remember, it is very important to answer all of these questions fully in detail, as it is very necessary for us to have all this information in order to make you an intelligent estimate. It is therefore important that none of these questions be slighted.

Make your sketches as complete as possible and then you can be sure of the radiation on your plant being figured right. It will avoid any possible chance of a misunderstanding in the matter. It is very important to explain in regard to the surroundings of your building. If your house is located on the open prairie with no houses around it, you will of course need much more radiation than you would if you were located in a city block. The size of the windows also have a very considerable bearing on the amount of radiation you will need and if these points are all fully covered, you can depend upon it that your plant will be figured exactly right in every way.

Selecting The Proper System

You are going to install a Heating Plant of some kind. That is a foregone conclusion. It simply remains to make up your mind as to which system will best serve your purpose. There are three practical systems of heating in common use at the present time, HOT WATER, STEAM AND HOT AIR. It is, therefore, a matter of deciding on one of these three.

We are pleased to give you in the following a brief unbiased statement of the advantages and disadvantages of these various systems and you can judge for yourself as to which system you think will be best adapted for your particular case:

If you are looking for a heating plant for your residence and your residence is not unusually large, by this we mean a building containing over 15 or 20 rooms, by all means put in a hot water heating plant. It is certainly the best system you could possibly install, and especially our Mercury Heat Circulator System, which is positively the top notch of perfection in a system for heating residences. There is not a better system of heating known to engineering science at the present time than this Mercury System of heating and if there is a better system than this that could possibly be devised for heating an average size residence, it is yet to be discovered.

When Steam is Best

When the plant gets up into very large proportions, such as is the case when a very large theater, church or hotel building is to be heated, hot water is not as practical a system as steam. For large buildings of this kind, where the plant has to cover very large areas, steam is the most practical system to use, owing to the fact that radiation in far-off parts of the building can be much more readily reached, and under these conditions, a steam system is the most reliable.

The disadvantage about a steam plant is that it requires much more attention than a hot water plant, and it is for this reason that we strongly recommend a hot water plant in preference to steam plant for heating residences. A 14-year-old boy can, without any trouble whatever, fully attend to a hot water plant, while it takes some little experience and practice to properly run a steam plant.

If the pressure in a steam plant goes down below a certain point, you will be burning coal in the boiler, and no practical results will be obtained in heating your rooms. The pressure has to be kept up to a certain point, and if the radiator is not filled with steam, you will not be getting any results, even though you are burning fuel in the boiler. You can get up heat quicker with a steam plant than you can with a hot water plant, but our mercury heat circulator system does away very considerably with the disadvantages in connection with hot water plants, and it reduces the volume of water required in the system, which means quicker results from firing, etc. A steam plant is more sensitive than hot water plant. It fluctuates more, and it is for this reason that it requires much more attention in order to keep the pressure to the proper point. Twice a day is often enough to look after your hot water plant, and our boilers being of special construction with a very deep fire pot, they will hold fire for 12 hours at a time without any difficulty whatever.

However, as we have already brought out in the above, steam, in spite of these disadvantages, is the best system to use when a large building is to be heated, for the simple reason that when a plant gets up into large proportions, as is necessary to heat a large building of this kind, there is much greater volume of water in the boiler and a much larger boiler and the plant is much less sensitive.

In other words, it is much easier to maintain a steady pressure without giving the boiler so much attention. Then again, on these large plants there is generally always a janitor or a fireman in constant attendance, while the plant is running, and under these circumstances, of course, the disadvantages of the plant requiring more attention are practically not to be considered and the great advantage which a steam plant possesses, that is giving quick results from firing, have more weight in this case than the actual attention required by a plant. It only takes about from 20 minutes to three-quarters of an hour, depending on the size of the plant, to have an entire building warmed up after the fire is first started with a steam plant, while in a very large hot water plant, it would probably take several hours to get the rooms heated up to the desired temperature.

In Church and Theater Buildings especially there are considerable periods of time during which there is no heat required and if the Building were heated with a hot water plant, it would be necessary to constantly maintain a fire in the boiler during severe weather to prevent the system from freezing up, while with a steam plant, the water can be drained out of the entire system and there will be no danger of freezing, even though there is no fire in the boiler.

Regulation

When a steam plant gets down into a small size plant such as is necessary to heat an average size residence, the disadvantages of a steam plant outweigh its advantages to a very considerable extent. As we have already stated, it is a very difficult matter to secure steady regulation and especially to keep your rooms up to the full temperature over night. This disadvantage is, of course, overcome to the greatest possible extent by the use of our Diaphragm Regulator, which is sent out with every steam plant, and with the aid of this regulator you can have your rooms in the morning at least three or four degrees of what they were the night before; but the point which we wish to emphasize is, that these very failings of the steam plant are the strongest points of advantage in a hot water plant.

In other words, where a hot water plant shines out above all other is in the almost constant temperature which you can maintain in your rooms in all conditions of weather, and regardless of how sudden the temperature changes are outside, and it is really wonderful to think of what little attention a hot water plant actually requires.

To put it in another way, if you install a steam plant in your residence, you would not be in the least dissatisfied with the amount of attention that the boiler requires, as it really would not require much more attention than your heating stove that you are now using, but if you put in a hot water heating plant, you would certainly be surprised at the very little attention that it requires to run it, and we very strongly recommend a hot water heating plant for your residence. A hot water plant is the most economical in coal, the heat is not so intense and it has many other advantages which really have to be experienced to be appreciated.

Remember, we do not try to convey the impression that if you purchase a steam plant it will not give you absolute satisfaction in every way, but we do say that if you put in a hot water plant, you will be much more agreeably surprised at the results than you will with a steam plant. A hot water plant costs the most money, but we strongly recommend it in spite of this increased cost, and furthermore, we will guarantee that this increased first cost will be entirely made up for in a very short time in the saving which will be made in your coal bills.

As to the relative choice between these three systems of heating mentioned above, we would, of course, give a hot water first place, and a steam plant is certainly next to be preferred, and we would advise you a thousand times rather to put a hot air furnace in your building than any heating stove manufactured at the present time.

THE GREAT ADVANTAGE

We have already brought to your attention the most important advantage of all of these systems, and that is the fact that the coal, ashes, dust, gas, etc., are all removed to the basement, and when these advantages are secured, this covers practically 75% of the actual advantages that are to be had from these systems, and while a hot air furnace cannot compare with a hot water plant or a steam plant as far as efficiency or convenience is concerned, we can certainly fit you up with a complete hot air furnace equipment that we will guarantee to give you absolute satisfaction in every way.

Our Furnaces

Our furnaces which we handle are the best furnaces on the market at any price, and we do not know one point in their entire construction that could possibly be improved upon. We refer you particularly to the detailed description of these furnaces as given elsewhere in this catalog.

The great attraction which a hot air furnace has is its low cost, and in this particular feature a hot air furnace has the advantage of all other systems. We can furnish you with a complete brand new equipment including all the registers, hot air pipes, furnaces, etc., at a cost that will really surprise you. In fact, the expense will not amount to much more than the cost of an ordinary heating stove, and by putting the plant in yourself and following our very simple instructions or plans, or getting some handy mechanic to do the work for you, you will be able to complete the entire installation at a very small figure.

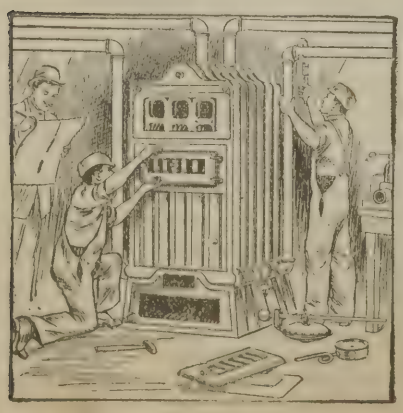
It is only fair to say here also, that a hot air furnace really has one or two very striking advantages which are not to be found with the other systems, and that is, you can get up heat almost instantaneously after the fire is started, and also the heat can be just as rapidly checked if it is desired to do so. Where a hot air furnace really is most appreciated is in changeable climates and countries where the weather is not so severe.

We Can Quote You on Any of These Systems, Steam, Hot Water or Hot Air

As we have already stated, the above is an unbiased statement of the relative advantages and disadvantages of these various systems, and we leave the matter entirely with you as to which system you want to install. We will cheerfully make you a proposition on any one of these three systems of heating, and we will absolutely guarantee any system that we furnish you, to give you the results as set forth in our specification to the fullest extent, so that you are taking no chances whatever in the matter.

We guarantee every plant we sell, and if you will let us know which system you wish to install and favor us with the necessary information which we will need in regard to the building, we can make you a complete proposition on your plant and you can rest assured that the price will be right.

Putting the Plant In

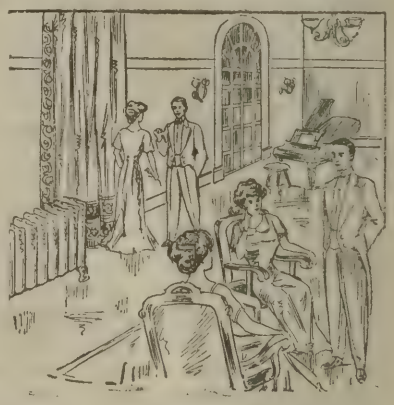


Few people realize what a simple matter it is to put in one of these Hot Water or Steam Heating Plants in a building, even though it is an old building, already built. It is not necessary to put the pipes inside the walls. You can get them run right outside in the rooms alongside of the radiators, and by arranging the upright pipes which lead to the second floor radiators close behind the radiators about 6 inches apart, it makes a very neat job, and if these pipes are gilded nicely, there is practically no advantage whatever in having the pipes inside in the wall, and a plant installed with these upright pipes outside the walls and gilded nicely, as above explained, will present just as nice an appearance in every way as if the pipes were concealed.

The heat that is given off from these upright pipes is not by any means entirely insignificant, and it helps out the radiators considerably in heating up the room.

It's a Simple Job

With most people, the matter of installing a plant is looked forward to with as much pleasure as a corn husking party and the fun is just as great. Putting up a plant is something you don't do every day. At every turn in the entire work, there is some new, tremendously interesting feature encountered, which requires a little careful thought and probably some continued discussion before it is finally solved, but surprisingly simple after all, and it is these new features that are constantly coming up in putting up a plant that makes the work so interesting.



Cutting and threading the pipe is practically the most difficult matter encountered in the entire work, and is simple as turning a handle, and as our complete blue print plans indicate the exact pipe size to use at each point, it is simply a matter of cutting the size pipe required and to the right length, starting at the boiler and continuing around until the last radiator is connected up.

The great secret of the pleasure experienced in putting in a plant of this kind lies in the fact that it is an absolute diversion from your everyday line of work, whatever it may be. You may be a lawyer, doctor, business man or a professional man of any kind, and if your everyday line of work is along this line, the more interesting will be the work of installing the plant.

You would be really surprised, if you knew how many plants we sold to lawyers and doctors, etc., who do all the work themselves and consider it the finest opportunity ever offered for getting some good, substantial exercise, and after the plant is in, they feel the better for it.

If you do not care to do the work yourself, you can get in touch with some ordinary mechanic, and by overseeing the work, you will get just as good a job, in fact, a better job than you would if you let the contract out to some local plumber who has not had the scientific training and experience necessary in designing a heating plant and proportioning the pipe sizes, etc., and radiators as they ought to be and as they are shown on the plans which are sent out with every heating plant which we sell.

If interested in a modern heating system for your home, do not fail to get our Special Heating Catalogue. This catalogue fully covers every side of the heating question, and contains much valuable information. Sent free, postage paid. Write for it at once.

Our Proposition

"A Heating Plant for Your Residence"

What do these words mean to you? Do they present a picture to your mind of comforts entirely beyond your means; a luxury which you, with only one or two hundred dollars to lay out, cannot hope to enjoy?

That is the impression that 90% of the people throughout the country owning small homes and of average means receive, when the word, Heating Plant, is mentioned.

We know this to be a fact with the experience that we have had.

We have had hundreds of people come into our office on some entirely different mission than looking for a heating plant, probably being attracted by our very low prices which we are putting out on our lumber and building material, etc., and when we incidentally mentioned a heating plant to them for their new building, the reply would be universally the same. "A Heating Plant! That is out of the question entirely; the price would be so high that we could not even think of it."

Why is it that so many people have this wrong impression? Where does it originate?

The Answer

The problem is simple.

Call up your local dealer or drop him a line and have him give you an estimate on your plant and you will get the answer to this problem by return mail. THE PRICE, "That's the answer."

Is it any wonder that people should entertain wrong ideas in this matter? Why is it that your local dealer demands such exorbitant prices for his material? Is it because his material is any better? That is a question which you yourself can decide.

You probably know of several parties in your town who have had their plants installed by the local men; get in touch with them, then drop us a line and let us put you in touch with some of our customers; maybe we can find one in your own neighborhood whom you can call on, and we will guarantee our plant to equal, if not out-class, both in design and quality of material, the heating plant installed by the local dealer at every point, and we leave it with you to be the fair judge in the case.

It Stands to Reason

Does it not stand to reason that we, with our immense working capital, having enormous quantities of radiators and boilers constantly manufactured and keeping the foundries working the year around, and then hardly able to fill our requirements, is it not evident that we, by selling the material direct to you and not through several different agents, can quote you lower prices than your local dealer who sells you material which has probably already been turned over several times and a profit realized in each case? Is it strange that we can almost cut his price in half?

Our Guarantee Bond

We show elsewhere in this book a fac-simile of our Guarantee Bond. This is a bona fide certificate of guarantee, and one of these certificates is furnished with every Steam or Hot Water Heating Plant which we sell.

365 Days Free Trial

The substance of this bond amounts to nothing more or less than an absolute option to you for an entire year on your heating plant, and if, after giving our plant a try-out after one year, you find that it does not come up to our specification at every point and entirely capable of giving you the results which we claim, you can return the entire plant to us at our freight expense and we will refund the original purchase price.

The Price

We positively guarantee the price of our plant to be lower than can be regularly secured from any other concern in the United States, considering the quality of material, amount of radiation, size boiler, etc., which we furnish on your plant. Don't let the matter of price which we quote you on your plant lead you to believe that there is something inferior about our material. We back every item on our entire heating plant, as far as quality is concerned, against any material of similar class on the market at the present time.

You are Protected Absolutely

Remember, when you get our proposition on your Heating Plant and you send us your order, you are protected absolutely and on the strength of our guarantee bond you have the privilege to return the entire shipment to our plant at Chicago and we will pay all return freight charges and refund your money; if, on opening up the material, you do not find our claims as to quality, etc., on your plant entirely justified, you can have your money back, if you want it.

You can therefore readily see that even though you are a thousand miles away from us, you have just the same protection as if you were right here yourself inspecting the material before you purchased it and seeing it loaded in the car.

Our Complete Detailed Specification

You have in your possession the complete detailed specification covering the entire plant and practically every minor item furnished on it. This specification is furnished with every proposition which we send out, and we have no desire to cover up even the most minute detail in connection with our plants. They are perfect beyond question to the very last fitting.

We Figure Liberal

If you compare our price with any others that you may receive, please remember the great importance of considering the amount of radiation and the size boiler, etc., on which we have figured for your plant. We have adopted a very liberal system of figuring our plants, and if you have ever had any experience in running a plant, you will certainly appreciate our judgment in this matter. We would much rather lose an order any time than sell a plant which would not be satisfactory.

When we make you a proposition on a plant, you can rest assured that it is a plant that will be amply large for your requirements and one that you will never have to force, even in the most severe weather that you will experience in your climate.

Complete Hot Water Heating Plant For Seven Room House $167.70

OUR MERCURY SYSTEM

Here is a sample of what we can do for you in a Heating Plant. This plant covers the requirements for an average sized residence of seven rooms. Everything on the entire plant is absolutely brand new and perfect in every way:

RADIATION

The radiation furnished on this plant is our brand new 38" three-column cast iron hot water radiation, of which there will be a total of 270 square feet. This radiation will be divided up among the various rooms of the house as follows:

FIRST FLOOR

Parlor,	15x12x9—1 rad.,	12 sec., 60 sq. ft.
Sitting r'm,	15x12x9—1 rad.,	9 sec., 45 sq. ft.
Dining r'm,	12x12x9—1 rad.,	9 sec., 45 sq. ft.
Hall,	12x12x9—1 rad.,	9 sec., 45 sq. ft.

SECOND FLOOR

Bedroom,	12x12x8—1 rad.,	7 sec., 35 sq. ft.
Bedroom,	12x12x8—1 rad.,	5 sec., 25 sq. ft.
Bathroom,	8x 8x8—1 rad.,	3 sec., 15 sq. ft.

BOILER

The boiler we propose to furnish in this proposition is one of our No. 67 brand new cast iron Perfection Boilers, furnished complete with Hot Water Thermometer and Altitude Gauge and sufficient asbestos cement for covering same.

EVERYTHING COMPLETE FOR ONLY $167.70

This proposition includes absolutely everything to the very last detail that is necessary to completely install this entire plant in a first-class workmanlike manner, with the exception of the decorating bronze for the radiators and the smoke pipe connection between the boiler and the chimney; also complete plans for installing, and we back this plant with our absolute guarantee bond, which is furnished with every one of our heating plants.

Hot Water Heating Plant Complete for This Modern House, Only $179.50

We can furnish for this building above illustrated, a complete, modern, up-to-date Hot Water Heating System, using our Mercury Heat Circular System of hot water heating, and a total of 290 square feet of brand new 38-inch 3-column, cast iron hot water radiation, together with all fittings, pipes, valves, etc., and everything to complete the entire equipment in a first-class workmanlike manner for **$179.50.**

The radiation will be distributed throughout the various rooms as follows:

FIRST FLOOR.

Living Room.....	1 rad.,	9 sec., 45 sq. ft.
Dining Room.....	1 rad.,	7 sec., 35 sq. ft.
Kitchen	1 rad.,	6 sec., 30 sq. ft.
Hall	1 rad.,	6 sec., 30 sq. ft.
Bathroom	1 rad.,	3 sec., 15 sq. ft.

SECOND FLOOR

Chamber	1 rad.,	8 sec., 40 sq. ft.
Chamber	1 rad.,	8 sec., 40 sq. ft.
Chamber	1 rad.,	6 sec., 30 sq. ft.
Chamber	1 rad.,	5 sec., 25 sq. ft.

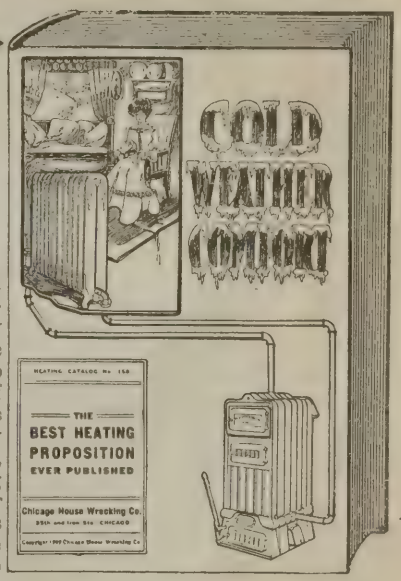
BOILER

The boiler we propose to furnish on this heating plant is our No. 67 Cast Iron Perfection Boiler, fully illustrated and described elsewhere in this book. We furnish it complete with a full set of hot water trimmings, including Altitude Gauge, Thermometer, Drain Cock, and the entire plant will be furnished complete in every detail with the exception of the decorating bronze for the radiators and the smoke pipe connection between the boiler and chimney. We can furnish all decorating bronze and bronzing liquid for all the radiators on this plant at an additional cost of **$3.25.**

This entire equipment with our Guarantee Bond and Complete Working Drawings for installing, only **$179.50.**

Our Complete Special Heating Catalog Combined with Our Complete Plumbing and Heating Instruction Book Sent to You Free, Postage Paid on Request

GET THIS BOOK →



IT'S VALUABLE

This book contains complete and simple instructions covering every difficult question in connection with Plumbing and explains everything in so simple a manner that you cannot help understanding it. You can install your own material. Get in touch with some ordinary mechanic if you do not care to do the work yourself. Read this Instruction Book very carefully and you will be able to get your entire material installed without any trouble whatever. Do not fail to write for this book. Covers fully our heating proposition, including our Steam, Hot Water and Hot Air Heating Plants and explains fully the great advantages of these systems. Tells you all about putting in your Heating Plant, general principles of Hot Water Heating, explains the Overhead Hot Water Heating System; how to connect the Mercury Heat Circulator. Explains fully the principles of Steam Heating Plants. Hot Air Furnace Heating. How to connect up the Furnace; make the connections; Adjustable Elbow; how to set the wall stacks in the wall; how to put a coil in your furnace to heat water for your bathroom and kitchen; general principles of Plumbing; how to use all the various Plumbing Tools, including Plumbers Blast Furnace; stocks and dies, calking chisels, etc. How to connect all the various plumbing fixtures, explaining fully in detail the use of the various fittings, Sewage System, Air Pressure Water Supply Systems, including Gasoline Engine Outfits, etc. Elevated Tank Systems, general pointers on Plumbing Systems. Everything of any importance is fully covered in the most clear and simple manner possible so that you cannot help but understand it. Write for this valuable book at once. This book has been prepared especially for the benefit of our customers at very considerable expense and if interested in a modern heating system or plumbing system for your home, we want you to have one of these books in your possession.

WE LOAN YOU TOOLS

In lining up our proposition on our heating plants, we realized the importance of furnishing our customers with the necessary tools to do the work. It would be a very great expense if you had to go to work and lay out the necessary money to cover the cost of the tools for installing your plant, when you would probably only use them once and then have no further use for them, and to accommodate our customers, we have decided to make the following proposition:

When you place an order with us for a heating plant and mention that you want us to furnish you with the tools, we send them along with the order C. O. D. for whatever they amount to. They are invoiced separately on the bill and you can tell just what they cost, and then when you are through using them, you pack them up and turn them over to your freight agent and bill of lading is made out for them. Mail bill of lading to us, and immediately on receipt of this bill of lading, we will return your money.

Read What Our Customers Say. You Will Say the Same

Some of these people may be your next door neighbor. We have our plants established in every state in the Union. Every one of these testimonials are honest, clean, unsolicited expressions from users of our systems, and we defy any one to prove to the contrary.

HERE IS ONE IN NOME, ALASKA.

Chicago House Wrecking Co.,
Chicago, Ill.

Dear Sirs:—The heating plant you sent me is installed and is working fine. Everything is entirely satisfactory in every way. Wishing you entire success, I remain, Yours truly,
(Signed) PAUL H. FITZGERALD.

NO MORE STOVES FOR HIM.

Chicago House Wrecking Co.,
Chicago, Ill.

Gentlemen:—I am writing you in regard to the Steam Heating Plant I purchased of you last summer and installed myself. To say that we are more than pleased (after passing through the winter and proving its efficiency) is not putting it strong enough. Every room in the house has been open and we have had no trouble in keeping an even temperature in every room in the house night and day. No more stoves for me, after knowing what comfort is, and we have certainly had it during the past winter. The plant has given perfect satisfaction in every way.

Please send me your General and Lumber Catalog. I am thinking of building new porches and would like to see your prices

Very truly yours,
(Signed) A. E. DEWHURST

INSTALLED PLANT WITHOUT PLUMBERS' AID.

Chicago House Wrecking Co.,
Chicago, Ill.

Dear Sir:—I have my heating plant installed and it works fine. Can heat my place red hot if I want to. Yours very truly,
(Signed) L. A. NEFF.

CAN GET MORE HEAT THAN NECESSARY.

Chicago House Wrecking Co.,
Chicago, Ill.

Gentlemen:—The heating plant I got from you does fine work. I wrote you that I thought you should have cut the pipes, but then found it was no job after all. You loaned me the tools and I had no trouble in getting the pipes to fit. The plumbers here would not loan me any tools nor would they cut me a pipe, because I did not buy of them, but I got it in all right and it works fine. Yours very truly,
(Signed) THOS. FLETCHER.

WORKS WELL IN THE COLDEST WEATHER.

Chicago House Wrecking Co.,
Chicago, Ill.

Gentlemen: Replying to your letter of December 3, which has just reached me, will say that the Mercury Heat Circulator sent me on December 17 was received December 23, and installed,

The heating plant is working fine under very trying weather and I am very well pleased with it. Yours very truly,
(Signed) H. G. SMITH.

ADVISES NOT TO BE MISGUIDED BY PLUMBERS.

Chicago House Wrecking Co.,
Chicago, Ill.

Dear Sirs:—Having just experienced the coldest days known in Chicago for 3 years, I am more than pleased to send you this unsolicited testimonial regarding the Hot Water Heating Plant purchased from you a few months ago. I installed this plant with practically no assistance and have had no trouble whatever since starting it up.

The Mercury Heat Circulator I find to be a valuable accessory, enabling the water to leave the boiler with a temperature of 235 degrees without boiling over. I would advise anyone who contemplates the purchase of a heating plant to carefully consider your proposition and not be misguided by false statements of plumbers, etc., or hasty conclusions of well meaning, but ill-informed friends. Yours truly,
(Signed) L. E. ADLER.

THE ECONOMY SURPRISED HIS NEIGHBORS.

Chicago House Wrecking Co., January 27, 1909.
Chicago, Ill.

Dear Sirs:—The Hot Water System that you sold me is now installed and it is certainly working fine. I appreciate the way you treated me very highly.

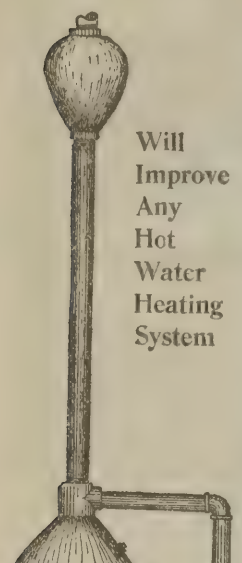
I got 700 feet of radiation and boiler, and I used only 3 buckets of range coal in 24 hours in the coldest weather we had. It furnishes 2 stories and basement—12 rooms—and without storm doors or windows. As yet I have had no trouble whatever. A child could take care of it. I have had several neighbors here to look at it and they were all well pleased with it. They could not understand how it could heat the whole house with such a small amount of fuel.

If you want any further reference call me up, or you can send anyone to see the plant. I put it in myself. Very respectfully,
(Signed) PETER M. STREIT,

THE NAME AND ADDRESSES OF THE ABOVE WILL BE FURNISHED ON APPLICATION

Our Mercury Heat Circulator

We furnish one of these on every one of our hot water heating plants. This device positively permits you to heat the water in your hot water heating system to 235° temperature. This temperature is as hot as steam at 10 lbs. pressure.



Will Improve Any Hot Water Heating System

This device is of such vital importance to the successful working of our hot water heating system, that it would be a very serious oversight if we did not give some detailed information of the principles on which it works and the theory of its operation in these pages.

The purpose of this device, as you are probably already aware, is to keep a pressure on the water in the system at all times. This pressure is maintained by a column of mercury about 20 inches high, which is contained in the device, and as this column of mercury is always pressing upon the water in the system, this serves the purpose and gives us the pressure desired, which is about 10 lbs. to the square inch.

You will probably ask at this point, "But what is the object of this pressure? Of what advantage is it to the system? It is not equal in all directions. Therefore, how can it be a benefit to the circulation of the system?" We do not put forth any such ridiculous claim as to say that this pressure of 10 lbs. on the water directly forces the water through the pipes at a rapid rate. A statement of this kind would stand beyond the bounds of reason, as the pressure is certainly equal in all directions and there would be no direct motion produced in the water by this static pressure in itself.

What we do claim, however, is that this pressure operates in an indirect way to increase the circulation in the system, which we will explain later.

It is a well-known and established physical law that the temperature at which water will start to boil varies directly as the pressure upon the water.

Under ordinary conditions, there is no pressure upon the water except that of the atmosphere, which is about 14 lbs. to the sq. inch, and water at this pressure boils at approximately 212 degrees Fahrenheit. If we increase the pressure on the water about 10 lbs., the water will not start to boil into steam until 235 degrees are reached, and if we increase the pressure still further, the boiling point would be increased still further, and so on, all the way up to 240 or 275, etc., according as the pressure increases.

This law could hardly be demonstrated in a more practical way than the experience tourists have many times reported when traveling in very high altitudes.

For instance, mountain climbers have found it impossible to cook potatoes on top of a very high mountain where the atmosphere pressure was so slight that the water would boil at a very low temperature, probably 180 degrees or so, and this temperature, of course, being entirely too low to produce any effect whatever on the potatoes, it would be impossible to cook them.

This is simply a further demonstration of the law as explained above; that is, that the point at which water boils varies directly as the pressure upon it.

If you reduce the amount of atmospheric pressure on the water, of course, the boiling point will be reduced in proportion.

For instance, water in an absolute vacuum would boil at a comparatively very low temperature and it would take very little heat to get the water to change into steam.

These are the general principles which have been taken advantage of in our Mercury Heat Circulator.

You have, by this time, probably already surmised the great advantage which we get in a hot water system by using this pressure, which, of course, means hotter water in the system and a much more efficient apparatus.

The water in our system does not boil until 235 degrees temperature are reached, so that we can keep much hotter water in the system throughout, we can get along with smaller radiators on the plant and get better results than it is possible to secure under the old open tank system, where there is no pressure on the water whatever, aside from the actual pressure of the atmosphere.

We get much more rapid circulation in this system. As before stated, this rapid circulation is due to the increased pressure in an indirect way, which operates as follows:

The circulation of water in a hot water heating system, you understand, depends upon the fact that as water becomes heated, it becomes lighter, and naturally the hotter water being lighter will seek to float to the highest point of the system immediately. In doing this, it allows more cold water to enter the bottom of the boiler, which in turn becomes heated, so that this is a continuous process, as explained elsewhere in this book.

It will be remembered that we heat the water in our system to as high as 235 degrees, where in the old open tank system the highest temperature that can be reached is 212 degrees. In other words, we can make water much hotter as it leaves the boiler in our system than it is possible to do under previous conditions. This can be very easily understood; we raise the water to a much higher temperature, as water becomes lighter as it becomes hotter, therefore the water is lighter in our system as it leaves the boiler than in any other. The water being lighter as it leaves the boiler means, of course, it will have a greater tendency to rise to the top than under old conditions. This tendency means no more or less than more rapid circulation. It will, therefore, be seen how this pressure operates indirectly to increase the rapidity of circulation in the system, and it is for this reason we call this device a Mercury Heat Circulator.

As to the working principles of the device, this hardly requires any detailed explanation. You need never bother about it after the day you connect it with your plant. There are absolutely no working parts to get out of order in any way. Seventy-five per cent of the people who are using our system and have these Mercury Circulators attached to their plants know absolutely nothing about its working principles. They simply followed our instructions, connected it with their plant, left it to its own resources and got results. These people never experienced one bit of trouble with this device after it was once connected with their plant, and it would be good for years and years without the least attention. Simply follow our blue print carefully in connecting this Mercury Heat Circulator and we will absolutely guarantee results.

It sometimes happens, however, in unscrewing the plugs, that are always inserted in the openings, some of the mercury is allowed to spill out. In a case of this kind, it is necessary to add sufficient mercury to make up for any loss that may have occurred, otherwise you would not get sufficient pressure on the plant nor the desired results.

There should be 5¼ lbs. of mercury in the bulb of this mercury heat circulator to get the right results. If you have spilled any of the quantity of this, the best scheme to follow is to unscrew the large round plug in the bottom of the bulb, hold it over a dish-pan and let all of the mercury run out, then weigh it carefully, and by subtracting the amount which you have from 5¼ lbs. you can determine how much it is necessary for you to add. After you have determined this, replace the large plug in the bottom of the Mercury Heat Circulator and remove the small plug in the side, carefully pour the mercury in at this opening, including the amount you have added, and after all the mercury is carefully poured in, replace this small plug and screw it in tight. You can then connect the Mercury Heat Circulator in the usual manner, being careful not to spill any of the mercury, and we will guarantee results.

Under normal conditions, of course, the mercury rests entirely in the bottom of the bulb. As soon as the water in the system becomes heated, however, it starts to expand and thereby presses down on the surface of the mercury in the bulb, which, having no other place to escape, gradually finds its way up in the small central tube, the end of which dips down in the mercury to within about ¼ of an inch of the bottom of the bulb. The higher the mercury climbs in this tube, the greater the pressure. When the mercury has climbed to the highest point, there is approximately 10 lbs. pressure on the system. When the pressure gets to over 10 lbs., it will, of course, force all the mercury out of the bulb and up into the tube, and finally the water itself will start to climb into the tube. When this point is reached, the mercury is entirely displaced and a certain amount of water is allowed to escape to the expansion tank, which releases the pressure and absolutely prevents any higher pressure than 10 lbs. ever being obtained in the system.

The advantage of this device over valves of any kind can be readily appreciated when you remember that there is absolutely nothing to get out of order or become fastened so that the pressure at any time cannot be relieved.

Previous to the development of the mercury principle for maintaining this pressure, valves were generally used and the great risk which was incurred in placing these valves on systems of this kind was so strongly realized that many architects throughout the country forbid absolutely in their specifications the use of any valve or connection with the hot water heating system in the building. That is, a valve for the purpose of producing pressure on the system. We have yet to hear, however, of a single instance where one of these Mercury Heat Circulators have ever been ruled against on the ground of their being a dangerous improvement. There is absolutely no danger whatever connected with the use of these Mercury Heat Circulators in your plant, as it is impossible for the mercury to become fastened and prevent the water from relieving itself of an unduly high pressure.

Was your Hot Water Heating plant figured too light? Attach one of these mercury heat circulators and you will have no further trouble. We instruct you how to connect it.

PRICES

No. 1 takes care of up to 1,500 sq. ft. radiation..... **$12.00**
No. 2 takes care of up to 3,000 sq. ft. radiation..... **25.00**
No. 3 takes care of plants over 3,000 sq. ft. radiation..... **35.00**

OUR PERFECTION CAST IRON BOILERS

It is only proper that we should here say a word or two in regard to our Perfection Boilers. The boiler is the very heart of the entire plant, and if the boiler is not right, the plant certainly will not be right.

You have probably heard a whole lot of affrightening statements made about cast iron boilers; the sections will crack and the nipples that connect the sections will rust out, etc., and numerous other catastrophes that are sure to take place, according to manufacturers of steel boilers, if you put in a cast iron boiler.

They Now Sell Cast Iron Boilers

If these are facts, why is it that these very same manufacturers have come out recently with a line of cast iron boilers? They simply had to. The public demand compelled them. The people know what they want and their judgment is generally infallible. It is results that count. If the cast iron boilers in use throughout the country were not doing excellent service and were not preferable to steel boilers, there would not be such a public demand, as compels these manufacturers to sit up and take notice, as they are now doing.

If you take a cast iron boiler and a steel boiler and put them both, one alongside of the other, each operating independent plants, it would not take a very long time to tell which was the superior boiler. It is a standing fact that steel is a substance which is very subject to rust. The same thickness of cast iron will last easily four times as long as the same thickness of steel, under any ordinary conditions, and especially under the very severe conditions which are met with in a heating boiler.

Little Chance of Cracking

We admit that cast iron will crack, but we also maintain that a cast iron boiler, made up in small sections with flexible connections, so as to allow for the expansion and contraction, has very little chance of giving trouble from this cause. In fact, the chance is about one in one hundred, and after you once get your boiler set up, you have a boiler that is good for a lifetime, which is certainly not the case with a steel boiler.

The great trouble with steel boilers is that, owing to the intense heat of the fire, the connections at the end of the flues, where they are corked against the steel boiler plate, are bound to deteriorate in a very short time, and it will not be very long until you have a leaking boiler on your hands and one which will be a constant source of trouble and annoyance. Then it is a matter of putting in new flues, an expense of probably twenty-five or fifty dollars at least. Probably the shell of the boiler will stand for two or three sets of flues, but at the most about six to eight years is as much as you can ever expect out of a steel boiler, and at the end of that time it is practically good for nothing but the scrap pile.

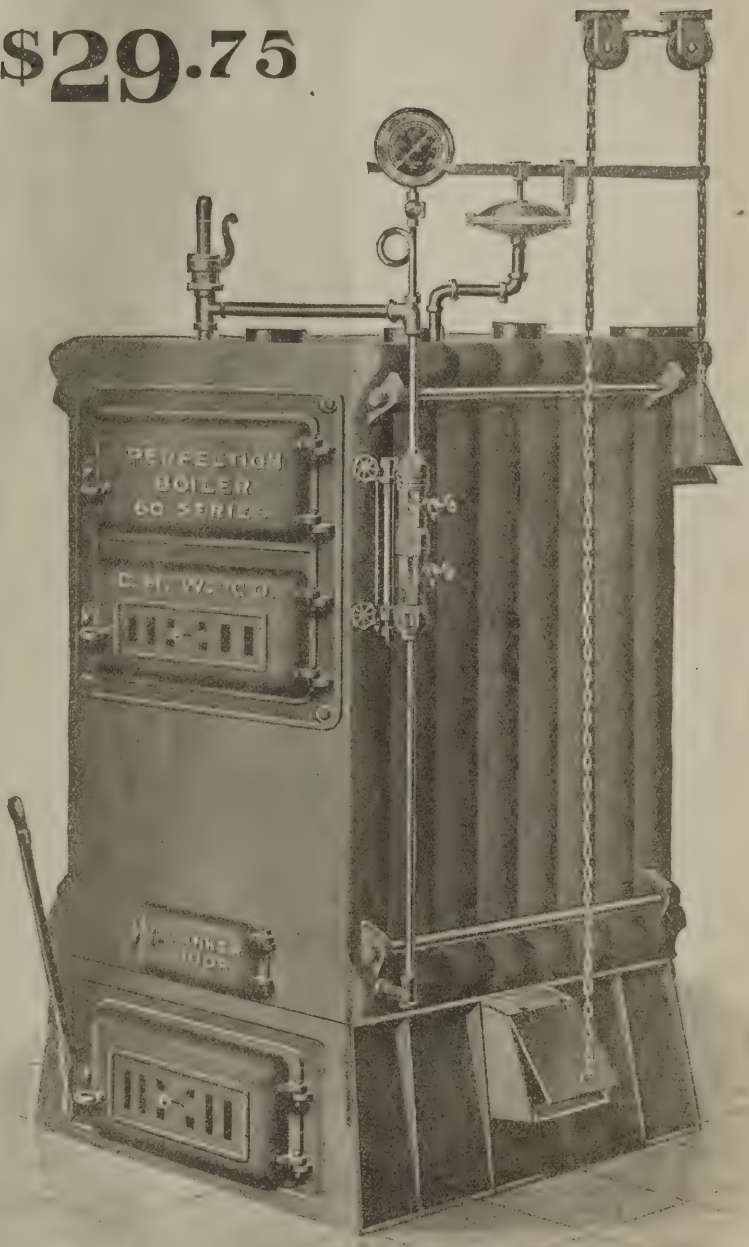
No Flues to Be Renewed

On the other hand, compare the cast iron boiler. You will never have to put in any new flues. There is absolutely nothing about the entire boiler that can possibly deteriorate. Cast iron is practically rust proof, and when you put the boiler up it is there for a lifetime. You may have to put in new grates or something of that nature once in a while, but aside from this minor expense, your investment is a permanent one and one on which there will be absolutely no depreciation whatever.

As far as the rest of the plant is concerned, the piping and fittings, etc., are of course not subject to such severe service as the boiler, where the intense heat is, and they are certainly good for a lifetime.

Therefore, when you put in one of our plants, you can safely say that you are putting something into your house that will outlive your building.

$29.75



Twenty-five Year Guarantee

The great weakness of cast iron boilers, according to steel boiler manufacturers, is the connecting nipples. We have only one answer to this statement and that is, that we will not hesitate to give you an absolute twenty-five year guarantee on the nipples of your boiler, if you want it. If at any time within twenty-five years after you purchase your boiler, these nipples rust out and leak, we are willing to furnish you brand new nipples and stand all expense of replacing them. As a matter of fact, these nipples will last just as long as the boiler.

Nipples Protected from Fire

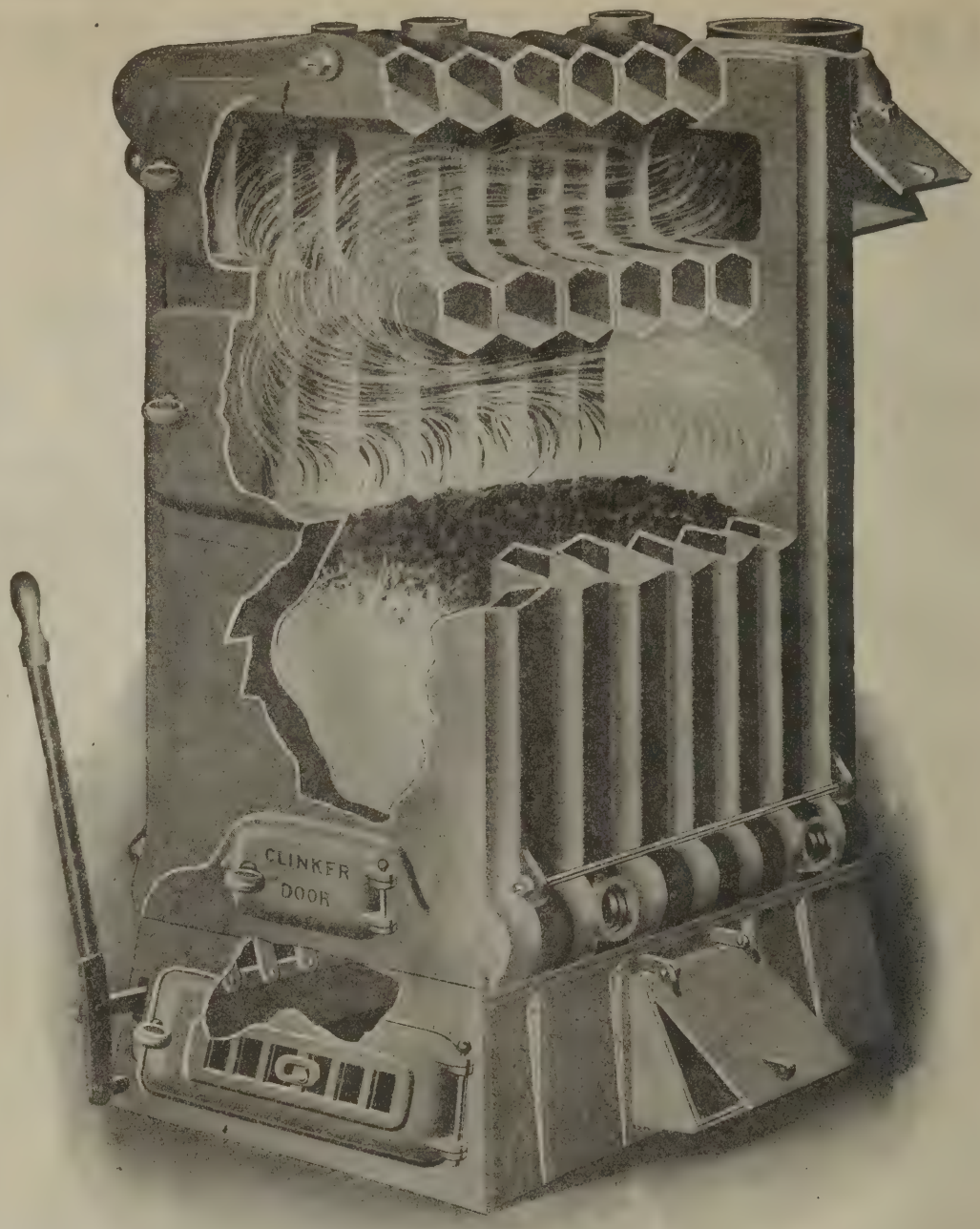
We admit these nipples are made of steel, but be sure to remember that we protect them in a very effective manner. They are entirely coated with zinc to prevent rusting, and their position in the boiler being practically ¾" deep in the casting and entirely away from any action of the fire, renders them absolutely independent of the very intense heat, and this intense heat, together with the chemical gases of sulphur, etc., which are given off from the coal, are the most destructive agents to which steel is especially subject and against which cast iron is entirely proof. Therefore, these steel nipples being so thoroughly protected in this manner and being located in such a position in the boiler that the heat or destructive fumes can never reach them, it is not hard to understand how it is possible that these steel nipples should last as long as the boiler.

Cast Iron Is Best

Cast iron is certainly the proper material to use for manufacturing boilers for house heating. It is all right to make boilers of steel when you are compelled to. Steel is the only practical material to use when you are building a boiler for power purposes and one which will have to stand up to a pressure of 100 to 200 or sometimes 300 pounds; but when it comes to a house heating boiler, in which the pressure will at the most never exceed 10 pounds, it is certainly advisable to sacrifice the mere matter of tensile strength of the material for more desirable advantages, such as durability and more efficient design, etc., which are the features of our cast iron Perfection Boilers.

Cast Iron Boilers Can Be Designed Better

It would be an impossible matter to make a boiler out of steel and make it in such a shape that the utmost efficiency of the fuel can be obtained. Cast iron can be made in practically any shape and it therefore lends itself to the designer's art most readily, so that the boiler can be designed to the highest point of efficiency and convenience, at the same time retaining those features, such as convenience for cleaning, etc., which are so essential in a house heating boiler.



The Deep Fire Pot

The one feature of our boilers which shines out above all others, is the very deep fire pot. In this we have idealized one of the most important features that go toward making a house heating boiler perfect.

When you fire this boiler up, it is good for twelve hours, without any attention whatever. In case you are using a Hot Water Plant, you can extend a chain from the dampers up through the floor and to an attachment on your wall in the living room and you can regulate the dampers upstairs, as is explained elsewhere in this book. It will positively be unnecessary for you to go down stairs in the basement to attend to the fire oftener than once in twelve hours.

If you find your rooms getting a little below the desired temperature, simply adjust the chain a short distance on the wall and you will in a very short time find that the temperature will go up to the proper point.

These boilers burn either hard or soft coal, and, in fact, we have in these positively reached the climax of boiler construction for residence heating.

Prices and Dimensions

Number	Size of Fire Pot	Size of Smoke Pipe	Floor Space Including Smoke Box	Tappings at Flow and Return	Height to Water Line (In Steam Boiler)	Direct Water Radiation	Direct Steam Radiation	Shipping Weight in lbs.	Price for Water	Price for Steam w. Trimmings
64	13 x 12	7	22 x 23	2-2	38½	300	150	590	**$29.75**	**$37.75**
65	13 x 15	7	22 x 27	2-2	38½	400	225	675	**41.00**	**49.00**
66	13 x 18	7	22 x 31	2-2	38½	500	300	835	**50.00**	**58.00**
67	13 x 21	8	22 x 35	3-2	38½	600	375	915	**55.00**	**75.00**
68	13 x 24	8	22 x 39	3-2	38½	700	450	941	**60.00**	**68.00**

These Boilers Burn any Kind of Coal

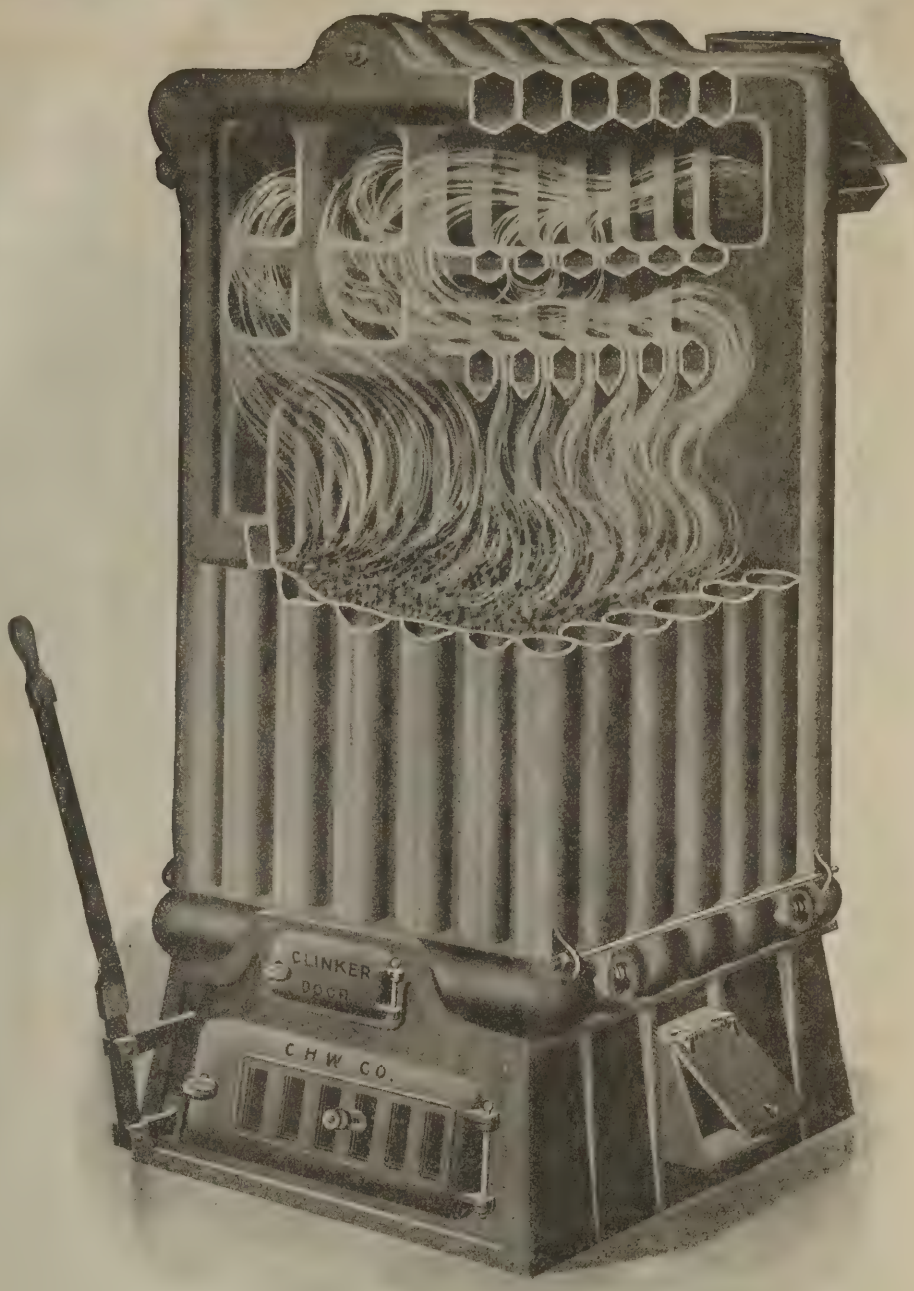
You can burn any kind of coal in these cast iron boilers; hard coal or soft coal. The great advantage which these boilers have as a soft coal burner lies in the ease with which they can be cleaned. The entire cleaning of the flues is done from the front of the boiler; simply open the clean-out door and run the flue brush through each flue opening two or three times, and the flues are bound to be cleaned in the most thorough manner possible. When this is done once every two or three days the utmost efficiency of the fuel will be obtained. Here is the great disadvantage of many boilers. When soft coal is used and a large amount of soot is generated, it is a very hard matter to keep the flue surfaces properly cleaned at all points so that the full amount of heat will be taken up from the fuel. The simplicity of the flue arrangement and also the ease with which these boilers can be cleaned, are their strongest points. Note that the entire fire pot is surrounded by water. The cold water being supplied to the bottom of the boiler gradually becomes heated, rises to the top and is taken off here with proper arrangement of piping to supply the various radiators.

All Boilers Assembled Before Shipment

We do not ship any of our No. 60 or No. 170 series boilers with the sections unassembled. All sections are put together before the boiler leaves our foundry. The connecting rods fully tightened up and the boiler tested under a high pressure cold water test before it leaves our foundry. We, of course, ship the base castings and the miscellaneous front castings and rear smoke box, etc., separately packed in boxes so as to avoid the possibility of damage in shipment. When you receive the boiler all you have to do is to assemble the base castings, set the grates in position, put on the front trimmings and the rear smoke box, etc., and the boiler is ready for action.

All These Boilers Tapped for Water Coil

Every one of our No. 60 and 170 series boilers are properly tapped in the rear of the fire box to provide for the insertion of a water heating coil so that you can heat water for domestic purposes. This makes a very convenient arrangement in connection with your heating system, as you can connect up a coil in the fire box of the boiler with your range tank, which may be located right alongside of the boiler in the basement or on the floor above, if you prefer, and with an arrangement of this kind it will not be necessary for you to start your kitchen stove every time you want hot water. The additional expense of a coil of this kind is very slight, and if you place an order for a heating plant with us, we would suggest that you include one of these coils, as it will certainly be a great convenience. As before stated, these boilers are all properly tapped so that this coil can be inserted any time, and should you not wish to put the coil in immediately, you can, of course, leave the matter go until whatever time you may need it. It is then simply a matter of removing two small cast iron caps from the openings in the back of the boiler and the coil can be properly set in place, as above explained.



The High Ash Pit

Another very important feature about these boilers is the high ash pit, which renders burning out of the grates almost impossible. A free circulation of air can always be kept up under the grates, and should the matter of removing the ashes be overlooked for a time, the ash pit is sufficiently high to keep the ashes away from the grates and allow for the free circulation of air for two or three days, if necessary. You will very seldom have to renew any of the grates in these boilers, as the chances of burning them out are very slight.

All Parts Interchangeable

Every individual casting or minor part of any kind that goes to make up this boiler can be readily duplicated by us at any time that it may be necessary. This line of boilers is a regular line which we are constantly manufacturing, and we can always duplicate any of the parts of this boiler. Every casting is properly numbered, and should any particular part of the boiler become broken in any way, all you have to do is to drop us a line, give us the number of the casting, and we will be able to duplicate the part at once without any delay whatever. The prices of all the various parts of these boilers are very reasonable and any of the various castings can be replaced at a very slight expense.

You Can Add More Sections If You Wish

Another great advantage of these cast iron, sectional boilers lies in the fact that you can insert one or more sections and increase the capacity of the boiler at any time you may desire. When you get your plant installed, you might have occasion to add a room or two to your house, or probably you might want to heat up some rooms that were not figured when the boiler was originally set in place, and in this case, all you have to do is to insert another section or two in the boiler and you will be fully equipped to take care of this additional radiation. Additional sections can be procured from us at any time, and it is not a difficult matter to insert them. You will, no doubt, fully appreciate the great advantage of this feature of these boilers, as you can always increase their capacity, and whenever it may be necessary to provide for additional radiation, you will not have to take out your entire boiler and replace it with a new one.

The Clinker Door

With the aid of the clinker door, it is possible to remove all dead coals or clinkers which may be in the bottom of the fire and too large to pass through the rocking grates. These clinkers can be removed bodily through the clinker door and this makes it practical to use such a deep fire pot as we do in these boilers, and does away with all disadvantages which such a deep fire pot might have were it impossible to get at the fire underneath, as we are able to do with the aid of this clinker door.

The Rocking Grates

Every grate bar in our boilers is mounted on an axis and connects with a common connecting bar underneath. This connecting bar is attached to a lever located at the side of the boiler, as shown in these illustrations, and by operating this lever every grate bar in the entire boiler can be made to rock and the top of the grate surface on which the fire bed rests is converted into a veritable grinding machine when these grates are being shaken, and it only takes very little shaking of these grates to get all of the surplus ashes out of the fire bed and get the fire going with a bright red heat through the entire grate surface of the boiler. These grates positively prevent any dead corners in these boilers, as any ashes that might collect in these corners will always find its way down, and once it reaches these grinding grates, it is bound to be discharged into the ash box.

The Regulating Dampers

All our Perfection Boilers are equipped with regulating check dampers, located in such a manner that one damper counteracts the other, and when connected on a chain system they can be adjusted in such a way that when one damper is open, the other is closed, vice versa. This gives a maximum amount of control of the drafts and requires very little adjustment to increase or diminish the drafts to a very considerable extent, as may be desired.

We Furnish Our Boilers Complete

When an order is placed with us for a heating plant, every item that is necessary in connection with the boiler is furnished complete. If it is a steam heating plant, we furnish complete steam trimmings, including cast iron combination water column, try cocks, water gauge, complete with guard rods, gauge cocks, pet relief cock, etc., and cast iron diaphragm damper regulator with rubber diaphragm, working beam, chain and pulleys for regulating the dampers; low pressure steam gauge, complete with syphon and pop safety valve. All of these trimmings are high grade and guaranteed flawless, and each is fully tested before shipment.

In the case of a Hot Water Heating Plant, we furnish the boiler complete with a straight Mercury Hot Water Thermometer and Altitude Gauge, with a red hand indicator, which can be set at the proper point when the system is found to be full.

Connecting Push Nipples

Every one of our cast iron boilers are assembled and the sections are connected together with zinc coated push nipples of proper taper and size to exactly fit the reamed tapered holes in the castings. These tapering push nipples, as has already been mentioned, are fully ¾" deep away from the fire, and the heat from the fire can never come close enough to have any effect whatever upon them, and they are absolutely protected against the action of the sulphurous gases from the coal. The way these nipples are protected in our boilers render them as indestructible as any part of the entire boiler, and we are safe in saying that these nipples will outlast the boiler itself, and the boiler is good for a lifetime.

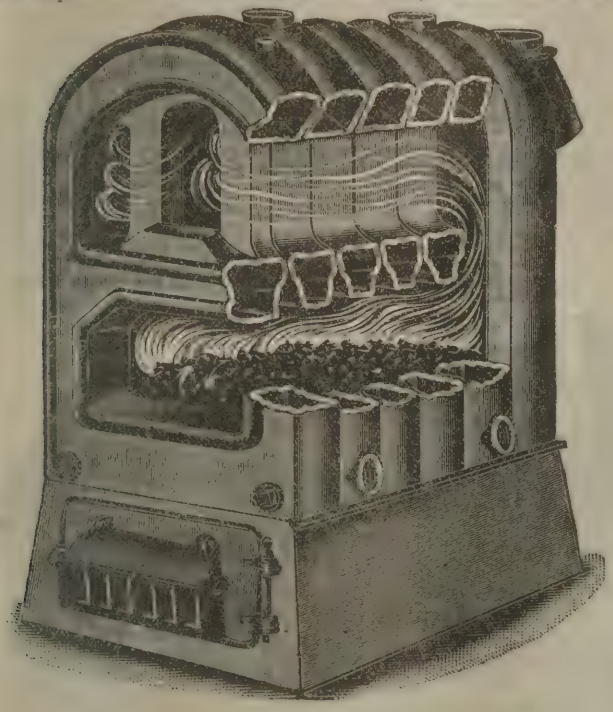
Prices and Dimensions

Number.	Size of Fire Box.	Size of Smoke Pipe.	Floor Space	Size and No. of Flow Taps.	Size and No. of Return Taps	Height of Water Line.	Height of Heater.	Squre Ft. of Water Radiation	Square Ft of Steam Radiation	Shipping Weight in lbs.	Hot Water	Price Steam with Full Set Steam Trimmings
175	17" x 17"	8"	27' x 31'	2-2½"	2-2½"	48½"	58"	700	425	941	$55.00	$63.00
176	17" x 21½"	8"	27' x 36'	2-2½"	2-2½"	48½"	58"	900	525	1123	73.00	81.00
177	17" x 26½"	9"	27' x 41'	3-2½"	2-2½"	48½"	58"	1050	625	1305	83.00	91.00
178	17" x 30"	9"	27' x 46'	3-2½"	2-2½"	48½"	59"	1250	725	1487	99.00	101.00

Cast Iron Sectional Boilers for Large Plants

We are in position to furnish larger sized cast iron boilers, where larger plants are to be supplied, than our No. 60 and 170 Series Boilers will be able to accommodate. For these larger sized plants we have a line of larger sized cast iron sectional boilers. These boilers are brand new and of similar construction to our other boilers described on the preceding pages, except that the fire box is more extended, broader and shallower, as this construction gives better satisfaction in large boilers of this kind.

Our 80 series boiler is designed similar to the sectional illustration as shown on this page. Our 90 series boiler is a much larger type of boiler and has a greater number of flue spaces. We will be glad to submit complete sectional blue print of this 90 series boiler on request. It is built of course for larger sized plants and is one of the best cast iron sectional boilers of the larger type on the market at the present time. The prices quoted on these boilers are very low, considering their size and capacity and their efficient construction and design. We guarantee these boilers to give absolute satisfaction in every way.



OUR No. 80 SERIES BOILERS

Dimensions and Prices as per Cut Shown on This Page

No	Size of Grate	Size of Smoke-pipe	Floor Space	Height of Boiler	Height of Water Line	Tapp'g. Fl'w and Return	Direct Water R'diat'n	Direct Steam R'diat'n	Price for Water	Price for Steam with Trimmings
84	21x21	8	29x32	50	41½	1-3	675	400	**$ 75.50**	**$ 84.50**
85	21x27	8	29x38	50	41½	1-3	850	525	**89.00**	**97.50**
86	21x33	9	29x44	50	41½	1-3	1050	650	**107.50**	**115.70**
87	21x39	9	29x50	50	41½	2-3	1275	775	**128.50**	**113.50**

OUR No. 90 SERIES BOILERS

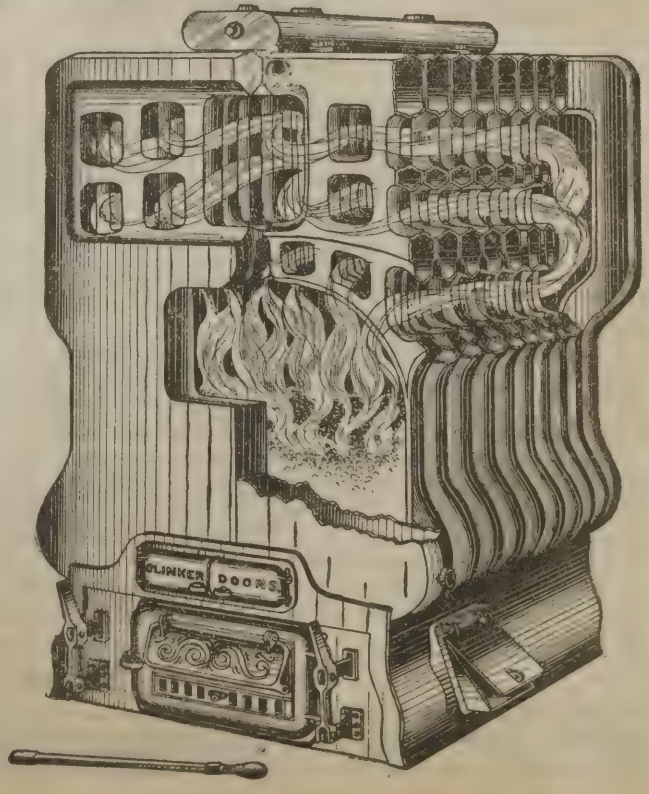
Complete blue prints of this 90 series boiler will be furnished on application.

No.	Size of Grate	Diam. Sm'ke-pipe	Floor Space	Tap-pings Flow and Return	Direct Steam Radia-tion	Direct H. W.	Price of Steam	Price of Hot Water	Weight
95	33x35	12 in	48x42	2-4 in.	1500	2500	**$214.50**	**$206.50**	4100
96	33x41	12 in.	47x48	2-4 in.	1800	3000	**253.50**	**245.50**	4500
97	33x48	14 in.	47x53	2-4 in.	2100	3500	**297.70**	**289.50**	4900
98	33x54	14 in.	47x59	3-4 in.	2400	4000	**331.50**	**323.50**	5450
99	53x60	16 in.	47x65	3-4 in.	2200	4500	**351.00**	**343.00**	5850

The above boilers are all shipped in separate sections and can be set up right on the job.

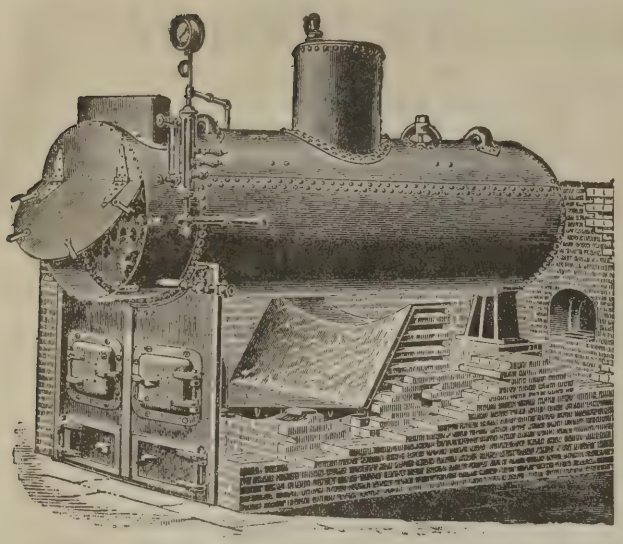
Perfection Boiler, No. 36 Series. Sectional View

The sectional view shown herewith will give a very clear idea of the internal construction of our Series 36 Boiler, the deep fire pot with enormous flue space exposed to the action of heated gases. The heated gases surround the row of overhanging flues, and travel to the back of the boiler, then forward through the flue spaces on either side of the boiler, and double back through the large flue area in the center. The deep fire pot in this insures the same slow, perfect combustion of the fuel as in our smaller boilers. The boiler also has the improved smoke box extension shown with our Perfection boilers. These boilers are a very perfect hot water boiler as well as a perfect steam boiler. The clinker doors are large, and enable one to remove the clinkers without grinding them up to entirely clean out the fire box. The Water Boilers of this series are built practically the same as the Steam.



Number of Heater	Number of Section	Size of Grate	Total Height of Boiler in Inches	Size of Smoke Connection	Floor Space Including Smoke Box	Size of Flow Tappings	Size of Return Tappings	Capacity sq. ft. of Direct Water Radiation	Capacity Direct Steam Radiation
W36- 6	6	36 x 33	73	14	52 x 47	1-5	2-4	2900	1775
W36- 7	7	36 x 39	73	14	52 x 54	2-5	1-5 2-4	3500	2150
W36- 8	8	36 x 45	73	15	52 x 60	2-5	1-5 2-4	4100	2550
W36- 9	9	36 x 51	73	15	52 x 66	2-5	1-5 4-4	4900	2950
W36-10	10	36 x 57	73	16	52 x 73	2-6	1-5 4-4	5500	3350
W36-11	11	36 x 63	73	17	52 x 80	2-6	1-6 4-4	6100	3750
W16-12	12	36 x 69	73	18	52 x 87	2-6	1-6 4-4 1-6	6700	4150

PRICE ON APPLICATION



Horizontal Tubular Boilers

We have always in stock any number of good rebuilt Horizontal Tubular Boilers, ranging in size from 30 inches diameter by 8 feet in length up to 72 inches diameter by 20 feet in length: or, in other words, from 10 to 175 horse power, with a capacity of 1,000 to 18,000 feet of radiation. These boilers are thoroughly overhauled before shipment. On large heating jobs we recommend their use. If you will give us plans and information as outlined on another page of this book, we can better estimate your requirements, and will make you a proposition on a complete tubular boiler ready for installation. Can furnish these with or without domes. They are practical for either steam or hot water heating. Following are the general specifications of what we have to offer in these boilers:

Nominal Horse Power	12	15	15	20	28	34	40	45	50	60	70	85	100	125
Capacity, sq. feet, Direct Steam Radiation*	1000	1200	1400	1800	2600	3100	3600	4700	5500	6900	8000	7200	9000	11500
Diameter, inches	30	30	36	36	42	42	42	48	48	54	54	60	66	72
Length Tubes, feet	8	10	8	10	10	12	14	12	14	14	16	16	16	16
Thickness Shell, inches	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5/16	5/16	5/16	5/16	5/16	3/8	3/8
Thickness Heads, inches	3/8	3/8	3/8	3/8	3/8	3/8	3/8	7/16	7/16	7/16	1/2	1/2	1/2	1/2
Diam. Stack, if vertical, ins.	14	14	16	16	20	20	20	24	24	26	28	28	32	36

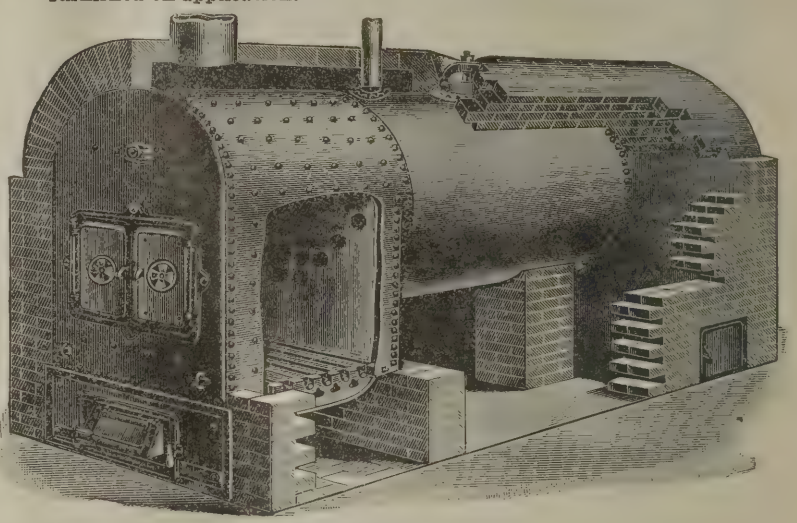
*In computing water radiation add 40 per cent to steam capacity.

Where we furnish horizontal Tubular Boilers to be set in brick work, **we will furnish without additional charge blue print plans showing the brick setting.** These boilers are particularly desirable in greenhouse heating. **We remodel steam boilers into water boilers for greenhouse heating when water is to be used.** Our boilers when overhauled and rebuilt will give you practically as good service as new boilers, and our prices will be found very much less than new. We have boilers of the same general specifications as above in strictly first-class condition to be used for power up to 100 or 150 lbs. pressure. Write us for anything in this line that you may need. **Prices on any of the above boilers furnished on application.**

Fire Box Boilers

Our stock of Fire Box Boilers is constantly changing, but we always have on hand upwards of fifty or one hundred boilers in various sizes for heating jobs. We recommend the use of these boilers where a low priced economical boiler is required. **These boilers are all thoroughly overhauled by us, carefully cleaned inside and out, and any repairs that may seem necessary to put them in A1 condition are made. We thoroughly test our boilers here and guarantee them.** The Fire Box Boilers can be brick set as shown in this illustration, or can be set without brickwork We will furnish the boilers with smoke box extension and stack connection, so that they can be set without brickwork when desired. **In steam jobs we furnish the boilers with a complete set of steel trimmings.** Following is the rating of standard sizes:

Diameter of Shell, inches	30	30	30	36	36	36	42
Length over all, feet	6½	7½	8½	7½	9	10½	8½
Size of Smoke Stack, inches	16	16	16	18	18	18	20
Capacity, direct steam	900	1000	1200	1400	1700	2100	2200
Capacity, direct water	1400	1600	1900	2200	2700	3400	3500
Diameter of Shell, inches	42	42	48	38	48	54	54
Length over all, feet	10	11½	10½	12	13½	14	16
Size of Smoke Stack, inches	20	20	22	22	22	24	24
Capacity, direct steam	2500	2900	3200	3800	4400	4900	5800
Capacity, direct water	4000	4600	5100	6100	7000	7800	9300



Rebuilt Boilers for Heating Purposes

We have at the present time about 200 second-hand heating boilers that have come into our possession through **dismantling the St. Louis Exposition or other large institutions.** Among these boilers are **locomotive, fire box type, the horizontal tubular boiler, vertical tubular boiler, economic return tubular boiler, greenhouse heating boilers** and **cast iron sectional boilers.** All the boilers which we offer in this list will be put through our **boiler shop,** thoroughly overhauled, and cleaned inside and outside, and any repairs that may be necessary to put them in strictly first-class condition, will be made. **We have facilities for building boilers and for thoroughly repairing them.** Every boiler we send out will not only be thoroughly repaired, but will be **tested to a hydrostatic pressure** of at least **Fifty Pounds,** and fully guaranteed. If you do not find just exactly what you want in this list, we will be glad to have you write us as to your requirements.

In the fire box patterns we have the following:

No. J. 41. One Water Bottom Fire Box Boiler, 32 ft. x 9 in., with a capacity of 1,500 ft. steam or 2,500 ft. hot water radiation. Complete with smoke box extension, smoke head door, fire door, ash door, grate bars, with two hand holes. This boiler is extra well braced. Total height of boiler 57 in., grates 36x25 in., 26 3-inch flues. It was used for high pressure steam, and is made of very heavy boiler plate.

No. J. 42. One Fire Box Boiler, 42 in. x 9 ft., capacity 2,200 ft. steam radiation. This boiler is not adapted for hot water, but would make a capital boiler for heating a greenhouse with steam. It has a dome and four handholes. It is extra well braced, horizontal seams double riveted. Has been used as high pressure boiler. Grates 42 in. x 36 in., 105 2-inch flues. Complete with smoke box extension and smoke head doors.

No. J. 43. One Open Bottom brand new fire box boiler, 44 in. in diameter by 10 ft. 3 in. long, capacity 3,000 steam or 5,000 feet hot water radiation. This boiler is made of ⅜ in. shell and 7/16 in. heads. Has 48 3-inch flues and fire box is 36x43 in. Fire door is 10x15 in. Boiler has two hand holes in front of fire box at bottom and one at top. Has 4 in. flow tap on top and 3 in. return tap on bottom and back of fire box. Boiler is without smoke box extension and is designed to be brick set.

No. J. 44. One Fire Box Boiler, 42 in. x 14 ft. with dome, with a capacity of 3,500 ft. steam or 5,000 ft. of hot water radiation. Grates 36x50 in., 38 3-in. flues. Complete with fire door and ash door, smoke box extension, and smoke head door.

In the Horizontal Tubular Boilers to be set up in brick work, we have a very large stock, ranging in all sizes. The following are but a few of these boilers that will give you an idea of the price of the different sizes.

No. J. 401. One Horizontal Tubular Boiler, 30 in. x 8 ft., capacity 1,400 ft. steam and 2,100 ft. hot water radiation. 20 3-inch tubes. Shell ¼ in. thick, heads ⅜ in. thick. Boiler complete with smoke box extension, smoke head door, stack saddle, fire front, grate bars, bearing bars, back arch frame, ash door and frame, and with a set of fire tools.

No. J. 402. One 36 in. x 10 ft. Horizontal Tubular Boiler with dome, and with manhole on top and one handhole in the end, 26 3-in. flues. Horizontal seams, double riveted. Capacity 2,200 ft. steam and 3,500 ft. hot water radiation.

No. J. 403. One Horizontal Tubular Boiler 42 in. x 10 ft. Has a dome and manhole. Has 48 3-in. flues. Made of 5/16 in. shell and ⅜ in. head. Horizontal seams double riveted. Complete with smoke box extension, with front including fire and ash doors, bearing bars, grate bars, soot frame and door, and a full set of steam fittings. The boiler will be put through our shops and given an overhauling, all necessary repairs being made to put it in first-class condition. Capacity 3,600 ft. steam and 4,200 ft. water radiation.

No. J. 405. One horizontal tubular boiler 42 in. by 18 ft. with dome and manhole. 5/16 in. shell and ⅞ inch head. Horizontal seams double riveted, 34 3-inch flues. Has side lugs. Capacity 4,000 ft. steam or 6,500 feet hot water radiation. Furnished with smoke box extension, clean out door, two doors, ash frame and doors, soot frame and door with bearing bars and grate bars.

For Large Steam or Hot Water Plants

We recommend these Second-Hand Horizontal Tubular Fire Box Boilers. They are for all practical purposes, just as good as new.

WRITE FOR PRICES **We are quoting prices on these boilers, which do not represent one-half their actual value. The above represents only a very small number of the boilers we have in our yard at the present time. We can quote you on practically any size boiler manufactured and we guarantee a saving of at least 50 per cent.**

Ornamental New Radiation.

CAST IRON RADIATORS FOR STEAM OR WATER

SPECIAL NOTE.

We can also furnish the above two column radiation in the absolutely plain pattern at same price. This plain pattern radiation has a perfectly smooth surface, and is the very latest thing in radiation.

NET CASH PRICES PER SQUARE FOOT OF HEATING SURFACE

Height, inches....	45	38	32	26	20
Steam Radiation..	$0.18	$0.18	$0.23	$0.25	$0.27½
Hot Water Radi'n.	.19	.19	.23	.25	.27½

No. of Sections	Length, 2½ inches per Section	HEATING SURFACE, SQ. FEET: 45 inch. high, 5¼ sq. feet per Section	38 inch. high, 4¾ sq. feet per Section	32 inch. high, 3½ sq. feet per Section	26 inch. high, 2¾ sq. feet per Section	20 inch. high, 2¼ sq. feet per Section
2	5	10½	8¾	7	5½	4½
3	7½	15¾	13	10½	8¼	6¾
4	10	21	17½	14	11	9
5	12½	26¼	21¾	17½	13¾	11¼
6	15	31½	26	21	16½	13½
7	17½	36¾	30½	24½	19¼	15¾
8	20	42	34½	28	22	18
9	22½	47¼	39	31½	24¾	20¼
10	25	52½	43½	35	27½	22½
11	27½	57¾	47¾	38½	30¼	24¾
12	30	63	52	42	33	27
13	32½	68¼	56½	45½	35¾	29¼
14	35	73½	60¾	49	38½	31½
15	37½	78¾	65	52½	41¼	33¾
16	40	84	69½	56	44	36
17	42½	89¼	73¾	59½	46¾	38¼
18	45	94½	78	63	49½	40½
19	47½	99¾	82¼	66½	52¼	42¾
20	50	105	86¾	70	55	45
21	52½	110¼	91	73½	57¾	47¼
22	55	115½	95¼	77	60½	49½
23	57½	120¾	99¾	80½	63¼	51¾
24	60	126	104	84	66	54
25	62½	131¼	108¼	87½	68¾	56¼

Each Section 7¾ inches wide. Width of legs 8 inches.

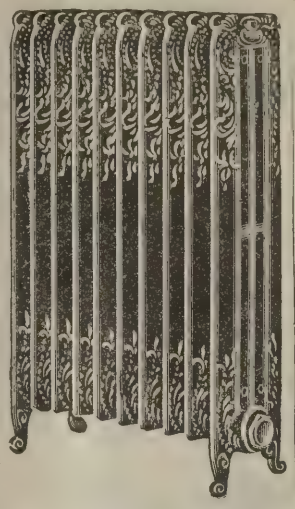
TAPPINGS.

All Radiators containing 20 feet or under, 1 inch.
All Radiators containing above 26 feet but not exceeding 60 feet, 1½ inch.
All Radiators containing above 60 feet but not exceeding 112 feet, 1½inch.
All Radiators containing above 112 feet, 2 inch.

New Radiation.

THREE COLUMN CAST IRON

OWING TO MARKET FLUCTUATIONS PRICES ON RADIATION ARE SUBJECT TO CHANGE



Unless otherwise specified, we furnish the above three-column pattern of radiation on all our heating plants.

PRICES PER FOOT

Height, inches...	45	38	32	26	20
Steam Radiation..	$0.18	$0.18	$0.23	$0.25	$0.27½
Hot Water Radi'n	.19	.19	.23	.25	.27½

No. of Sections	Length in inches	HEATING SURFACE, SQ. FEET: 45 inch. high, 5½ sq. feet per Section	38 inch. high, 5 sq. feet per Section	32 inch. high, 4¾ sq. feet per Section	26 inch. high, 4 sq. feet per Section	20 inch. high, 3¼ sq. feet per Section
3	7½	19½	15	14¼	12	9¾
4	10	26	20	19	16	13
5	12½	32½	25	23¾	20	16¼
6	15	39	30	28½	24	19½
7	17½	45½	35	33¼	28	22¾
8	20	52	40	38	32	26
9	22½	58½	45	42¾	36	29¼
10	25	65	50	47½	40	32½
11	27½	71½	55	52¼	44	35¾
12	30	78	60	57	48	39
13	32½	84½	65	61¾	52	42¼
14	35	91	70	66½	56	45½
15	37½	97½	75	71¼	60	48¾
16	40	104	80	76	64	52
17	42½	110½	85	80¾	68	55¼
18	45	117	90	85½	72	58½
19	47½	123½	95	90¼	76	61¾
20	50	130	100	95	80	65
21	52½	136½	105	99¾	84	68¼
22	55	143	110	104½	88	71½
23	57½	149½	115	109¼	92	74¾
24	60	156	120	114	96	78
25	62½	162½	125	118¾	100	81¼

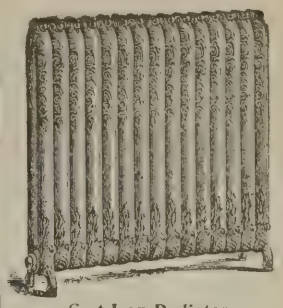
TAPPINGS

All Radiators containing 26 feet or under, 1 inch.
All Radiators containing above 26 feet but not exceeding 60 feet, 1½ inch.
All Radiators containing above 60 feet but not exceeding 112 feet, 1½ inch.
All Radiators containing above 112 feet, 2 inch.
Each Section is 9½ inches wide; width of Legs, 10¾ inches.
Distance from floor to center of tapping, 5 inches.

Note.—In ordering, always mention whether for steam or water, and if for steam, whether for one or two pipe, or for atmospheric or vapor system For steam, one pipe tapping will be regularly supplied, unless otherwise specified.

Radiation.

REBUILT.



Cast Iron Radiator.

In connection with our purchasing and dismantling, we secure large numbers of fine radiators. We have them in all styles, for steam and water; for factory, residence, public halls, and other purposes. If you will write us your requirements in the heating line, we will make you a proposition to furnish you all of the material necessary to install your plant. Write us your wants. We can save you money. At the present time our stock of rebuilt radiators includes anything you require. They are in fine condition, have been rebuilt, and every radiator is tested under cold water pressure before shipment. You can purchase without hesitation. We guarantee them. Our stock consists of the following:

CAST IRON RADIATORS.

Our stock consists of 2 and 3 column steam and water radiators, ranging in heights from 18 to 45 inch. We can furnish almost anything required in 38 inch radiators, either 2 or 3 column. These radiators are standard size, and contain 4 sq. feet of heating surface to the 2 column, and 5 sq. feet to the 3 column. They are very ornamental in pattern, and suitable for the best residence purposes. Prices as follows:

For Steam.

Heights up to 24 inch, price per square foot of heating surface.....$0.18
Heights from 24 to 32 inch, inclusive, per square foot of heating surface. ..... .17
All other heights, per square foot of heating surface..... .15

For Water.

Heights up to 24 inch, price per square foot of heating surface.....$0.18
From 24 to 32 inch, inclusive, per square foot of heating surface..... .17
All other heights, per square foot of heating surface..... .16

An Exceptional Offer.

Pipe Radiator.

We purchased the entire Heating Equipment of one of the largest buildings in Chicago.

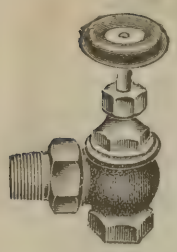
15,000 sq. feet of good sound second hand pipe radiation, runs in sizes 60 to 150 sq. feet to the radiator. Just the thing for heating factories, churches or large buildings of any kind. Every radiator fully tested and guaranteed steam tight before shipment.

This radiation is positively just as good as brand new in every way. While it lasts, we will sacrifice it at 13 ct. per sq. foot.

You could not buy the Pipe alone for less than that. These are standard pipe radiators made up with upright pipes screwed into a castiron base.

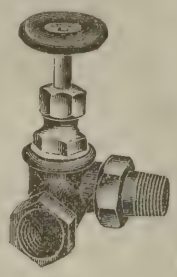
Let Us Make You a Proposition on Your Complete Heating Plant.

RADIATOR VALVES.



No. 5-A-178. Jenkins' Disc Angle Radiator Valve, with Union, nickel plated all over.

Size Inches	Price Each
¾	$0.65
1	.80
1¼	1.10
1½	1.40
2	2.25



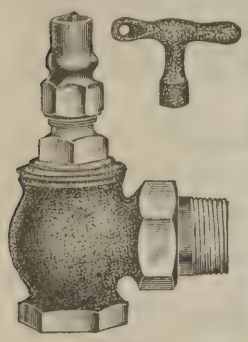
No. 5-A-174. Jenkins' Disc Corner Radiator Valves with Union, nickel plated all over. Made of heavy steam metal. Fully guaranteed. These valves are made for both right and left hand corners.

No. 5-A-175. For right hand corner.

Size Inches	Price Each
¾	$0.80
1	1.00
1¼	1.35
1½	1.76
2	2.80

No. 5-A-176. For left hand corner.

Size Inches	Price Each	Size Inches	Price Each
¾	$0.80	1½	$1.75
1	1.00	2	2.80
1¼	1.35		



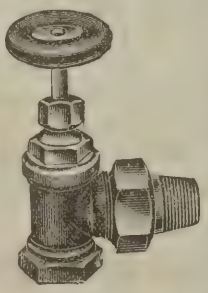
LOCK SHIELD RADIATOR VALVES.

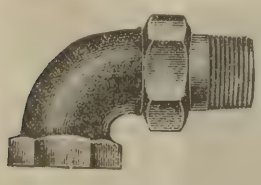
No. 5-A-177. Jenkins' Disc with Union, nickel plated all over.

Size Inches	Price Each
¾	$0.65
1	.80
1¼	1.10
1½	1.40
2	2.25
Extra keys	.08

No. 5-A-179. Quick Opening Hot Water Radiator Valve with Union, nickel plated all over.

Size Inches	Price Each
¾	$0.50
1	.62
1¼	.85
1½	1.25
2	1.85





No. 5-A-180. Hot Water Union Elbows, nickel plated all over.

Size Inches	Price Each
¾	$0.35
1	.44
1¼	.54
1½	.70
2	1.17

No. 5-A-181. Nickel Plated Compression Radiator Air Valves. Size, ⅛ inch.
Price, each $0.08
Price, per dozen ..... .90

No. 5-A-183. Nickel Plated Compression Radiator Air Valves with wood wheels. Size, 18 inch.
Price, each $0.10
Price, per dozen 1.00

No. 5-A-182. Nickel Plated Compression Radiator Air Valves, Lock and Shield. Size, ⅛ inch.
Price, each $0.10
Price, per dozen 1.00

No. 5-A-184. Nickel Plated Automatic Radiator Air Valves for steam.
Size of connection pipe thread.
Price, each $0.40
Price, per doz 4.50

PIPE HANGERS.

Can be cut to all desired lengths by disconnecting two lower screws. The most practical pipe hanger on the market. Easy to adjust and can be put up in less than half the time of the ordinary hanger.

No. 5-A-185. Adjustable length, 2 to 10 in.

Pipe Inches	Each	Pipe Inches	Each
1	$0.07	2½	$0.12
1¼	.08	3	.14
1½	.08½	3½	.15
2	.10	4	.18

No. 5-A-186. Adjustable length, 10 to 16 in.

Pipe Inches	Each	Pipe Inches	Each
1	$0.08	2½	$0.13
1¼	.09	3	.15
1½	.10	3½	.16
2	.11	4	.19

HOT WATER THERMOMETERS

Used in connection with hot water heating plants, registering up to 220 degrees. Guaranteed accurate. Each Thermometer is carefully packed in a separate wooden box.

No. 5-A-187. Straight Thermometers as shown in illustration.
Price, each $0.75

No. 5-A-188. Angle Thermometer for use on risers or circulating pipes. Price, each. .80

ALTITUDE GAUGES.

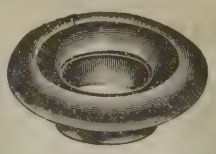
No. 5-A-189. Altitude Gauges are used for indicating the height of water in a hot water heating system. The figures indicate the height of water in feet. The red hand is movable. When you determine the height of water to just fill the system correctly, set the red hand at that point and then the indicating hand should be right on top of it. Any deviation of pointer indicates change in level of water. Each $1.25

GALVANIZED STEEL EXPANSION TANKS.

These are used in connection with hot water heating plants. Water gauge not included at prices quoted.

	Capacity gallons	Size Inches	Sq. feet of radiation	Price Each
No. 5-A-190	8	10x20	250	$ 2.50
No. 5-A-191	10	12x20	300	2.90
No. 5-A-192	12	12x24	400	3.10
No. 5-A-193	15	12x30	500	3.25
No. 5-A-194	18	12x36	600	3.50
No. 5-A-195	20	14x30	700	4.50
No. 5-A-196	24	14x36	850	4.30
No. 5-A-197	26	16x30	1000	5.10
No. 5-A-198	32	16x36	1300	5.50
No. 5-A-199	42	16x48	2600	7.50
No. 5-A-200	66	18x60	3000	13.95
No. 5-A-201. Water gauge set				.60

NICKEL PLATED FLOOR AND CEILING FLANGES.



No. 5-A-202. Floor Flange.

Size Inches	Price Each
½	$0.04
¾	.04
1	.05
1¼	.06
1½	.07
2	.09

No. 5-A-203. Ceiling Flange.

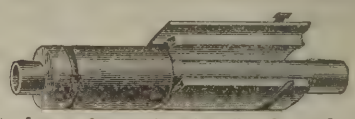
Size Inches	Price Each
½	$0.06
¾	.06
1	.07
1¼	.08
1½	.09
2	.12

WOOL FELT SECTIONAL PIPE COVERING.

No. 5-A-205. Especially recommended for hot water heating plants or for low steam pressures. This covering is made of soft corrugated wool felt with interlining of two layers of asbestos felt, and finished with a canvas jacket. It comes in sections 3 feet long, and is furnished with sufficient metal bands to securely fasten it to the pipe. Thickness of this covering 1 inch.

Inside dia. Inches	Price per Section of 3 ft.	Elbows Each	Tees Each	Inside dia. Inches	Price per Section of 3 ft.	Elbows Each	Tees Each
¾	$0.13	$0.07	$0.08	3	$0.27	$0.11	$0.12
¾	.15	.07	.08	3½	.30	.12	.14
1	.16	.07	.08	4	.36	.13	.17
1¼	.18	.07	.08	5	.42	.20	.26
1½	.20	.07	.08	6	.48	.29	.55
2	.22	.08	.09	7	.60	.40	.48
2½	.24	.09	.11	8	.66	.52	.66

MOULDED ASBESTOS PIPE COVERING.



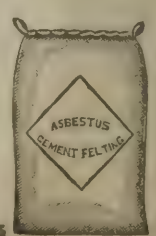
This form of covering is offered as the most durable and effective non-conducting covering yet produced. It is absolutely fireproof and is made in sections in the various sizes, 3 feet long, which are finished with canvas jackets, and provided with sufficient metal bands to securely fasten it to the pipe. Thickness of covering 1 inch.

No. 5-A-204.

Size to fit standard pipe, Inside diameter Inches	Price per section of 3 ft. including Bands	Elbows Each	Tees Each
½	$0.14	$0.07	$0.08
¾	.16	.07	.08
1	.18	.07	.08
1¼	.20	.07	.08
1½	.22	.07	.08
2	.25	.08	.09
2½	.27	.09	.11
3	.30	.11	.12
3½	.33	.12	.14
4	.39	.13	.17
5	.46	.20	.26
6	.54	.29	.55
7	.66	.40	.48
8	.72	.52	.66

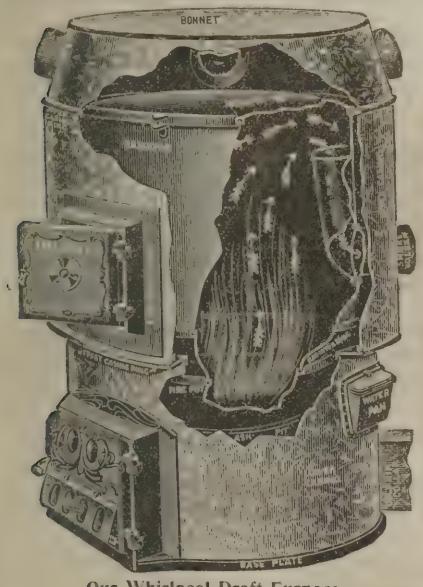
ASBESTOS CEMENT.

No. 5-A-206. An excellent fire proofing. Used for covering boilers and other steam or hot water surfaces that are exposed. It is an excellent non-conductor. To apply this cement it is mixed with water to the consistency of mortar and applied with a trowel. Put up in bags of 100 lbs. A bag will cover about 25 square feet.
Price, per bag $1.25



Hot Air Furnace as a Means of Heating

The simplest conception of the principle on which a hot air furnace works would be to imagine a stove located in the basement of a building entirely inclosed in a box of some kind with an opening in the bottom so that the air can freely circulate around the stove and become heated and then have this box with pipes leading from it to the various rooms. This is, in fact, nothing more or less than what a hot air furance really is and this is the simplest manner of describing it. There are no difficult principles whatever involved in this method of heating and while it is the simplest system of any known, it is at the same time, the most deceiving as to the results which might be expected from certain arrangements of piping under certain conditions. The reason for this is, that the outside conditions have always to be met with. If the building is very loosely constructed and there are many openings around the windows and doors, it would not take a very strong wind from any one direction to counteract the current of air which should pass through the furnace to the rooms and instead of the air circulating from the furnace to the rooms, the pressure of the wind will force the air back through the furnace. For this reason the furnace never works properly in a building which is of loose construction and which is very hard to heat. Also the arrangement of the piping and registers have a good deal to do with the proper working of the furnace.



Our Whirlpool Draft Furnace.

It would be too lengthy a matter for us to go into all the details in these pages.

We will simply let this matter rest with the assurance that if the designing of the plant is left in our hands, we will locate the furnace and registers properly so that your particular conditions will be properly met with and we will guarantee the furnace to do all that is claimed for it.

For the economical builder a furnace has many attractive advantages.

As to connections, etc., these are very simple and they are much on the same order as connecting up an ordinary stove pipe.

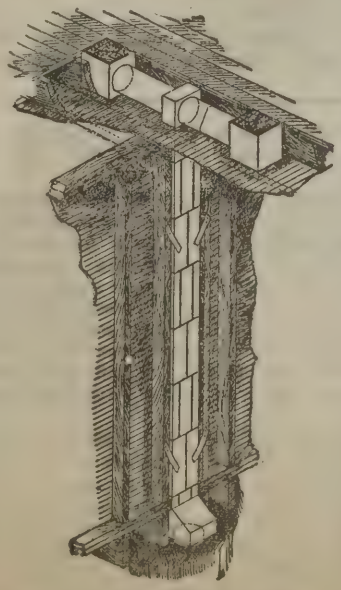
These details have been very carefully figured out by our engineers.

We wish to say that a furnace can be installed in any old building as well as a new one.

We furnish the wall stack or pipe in sections and it can be pushed up between the lath and plaiters from the basement of the building in each case and when you get it up to the proper point in the room up stairs, you can very easily connect on the proper registers, without any difficulty.

There are no solder joints or anything of that kind needed in connecting up a furnace; simply fasten the joints of wall stack to the register, etc., with cotter pins, which serve to hold the register and piping in place.

When we design your outfit it is bound to work. Our furnaces are the best on the market. Write for our catalog.


Perspective View Showing How Stack is Connected in Wall.

Putting The Furnace In

Simply start at the furnace and put on the pitch bonnet casing collars, and then follow on with one joint of pipe after another until the last register is set in place.

To explain the actual construction of a furnace, it may be divided into three principal parts. First the fire pot, which constitutes the actual body of the furnace proper, wherein the fire burns, and this is practically nothing more or less than an ordinary stove, and is just as simple in every way.

The second part is the radiator ring, which encircles the top of the furnace. This ring has a division plate in the rear, so that the burning gases have to travel clear around this ring before going out into the chimney. It is one of the principal heating surfaces which heat the air in passing through the furnace.

The third part is the casing which encircles the entire furnace, and in this we would also include the bonnet which caps the furnace, and this bonnet has a pitched conical side and it is out of this pitched side that all pipes are taken leading to the various registers.

The casing is made out of galvanized sheet iron. The fire pot of the furnace is made out of cast iron, and the radiator ring in our Economy furnace is made out of cast iron top and bottom pieces, with sheet iron sides of heavy gauge. Our Whirlpool furnace does not have the radiator ring, but to make up for this it has a very large radiator steel radiator body, which is kept constantly heated, and this is more desirable when fuel of every miscellaneous description is to be burned in the furnace. The pitched bonnet is very clearly shown in the cut on this page of our Whirlpool furnace, and the radiator ring, etc., is shown clearly in the cut of our Economy furnace.

There is another circular casting at the bottom of the furnace, called the base ring, and this is simply a frame around which the casting sets in place. It is a sort of support for the casing.

Simpler Than Putting Up a Stove

The matter of setting up this furnace is as simple, in fact simpler than setting up a stove. The first thing you do is to get the body of the furnace set in place and built up in a proper way, and everything bolted properly. Then get the casing unpacked and fitted in place. Put on the top bonnet with bolts, and that is all there is to it, except connecting up the smoke pipe, which needs no explanation.

Then comes the matter of cutting the holes in the pitched bonnet top to connect the hot air pipes. The exact location and the exact size of all these holes are shown very clearly in our blue print plans, which we furnish with each furnace equipment, and you can simply pick out the casing collars out of your shipment, one of which is furnished for each size pipe leading out of the pitched bonnet, and you can take any sharp steel point and mark the exact size that the hole should be cut. After this is cut out, set the pitched bonnet collars in place as follows:

By examining one of these collars you will note that the side that is supposed to fit into the casing is slitted all around to the extent of about ¾" from the end. Take every alternate piece and bend it back, leaving the intermediate pieces project straight out. Then insert it into the opening that you have cut in top of the casing, so that these pieces that you have bent outwards press against the outside of the casing and you can then bend the inside pieces over so they will press against the inside of the casing. You have then the collars set in place and something to start from. These collars, of course, are exactly the same size as the various size pipes leading out of the furnace, as shown in our plans, and you can simply put on a joint of pipe of proper size and continue until you come to the point where the register is to be set in the floor. Or if it is a second floor register that is to be supplied, you will have a wall stack already set in place, to which connection is to be made. Connections are, as a general rule, made to all wall stacks with our No. 8 boot as shown in figure (1.) It is very simple to understand this boot. The wall stack comes right down and connects with the rectangular top and the hot air furnace pipe is connected on to it from underneath at the circular collar with an adjustable elbow.

Our Line of Hot Air Furnaces

The only objection that can possibly be raised against a steam or hot water heating plant is cost. There are thousands of people who, while fully able to meet the cost of a good hot air furnace, would be compelled to resort to stoves if the expense of a furnace were as great as a steam or hot water heating plant.

Lowness of Cost

That is the strongest argument that can possibly be urged in favor of a hot air furnace and it certainly has considerable weight. If you can possibly afford it we do very strongly advise you to install a hot water plant, and we would give a steam plant second place, but if your means do not permit either of the above you need not despair: we can furnish you with a furnace which will not cost you much more than a first-class stove and it will be just as simple to connect it up in your building as it is to put up an ordinary stove pipe. The The only difference is that it will take a little longer time as there is a little more of it. The only tools you will need are your two hands, a pair of snips and a saw to make a place for the registers in the floor.

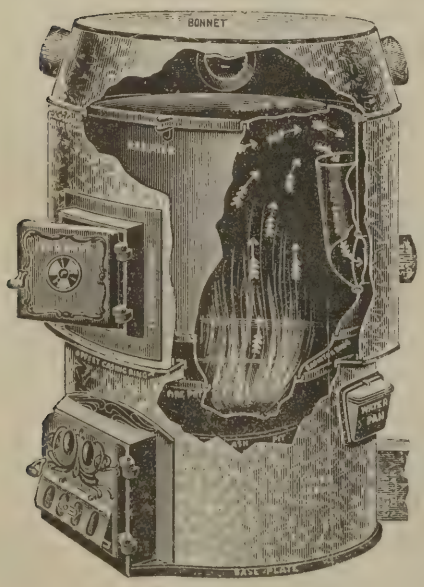
In presenting these to our customers, we do so with the utmost confidence in their merits. When we started out to look for a furnace to supply our customers we kept fully in mind the priceless reputation which we had built up in our steam and hot water heating business, and owing to the many unfavorable reports which we have been receiving from time to time from parties who had furnaces installed in their houses, it was with reluctance that we considered risking our reputation by taking on a line of furnaces. However, the inquiries which we have been receiving for furnaces have been increasing so rapidly that we have had to "sit up and take notice."

After investigating the matter we found that there were really several good furnaces on the market, which installed under proper conditions, could be relied upon to give satisfaction. It was then that we fully awakened to the situation. The reports which we had been receiving came only from the people whose furnaces were not satisfactory and who were compelled to install an auxiliary hot water heating arrangement of some kind. The satisfactory furnaces were never reported to us for the simple reason that those people who had satisfactory furnaces had no improvements to make and of course found no reason to correspond with us. We made a deep study of this problem and after sifting the matter to the bottom selected a number of the best furnaces on the market and analyzed them to the very core. The first general condition which became strikingly apparent was the fact that they all had some one or two exceptionally good features which were the very corner-stones of their success.

We recognized drawbacks in all of them, however, and we realized that there was a very broad field for improvement. It became clear to us that it would not be possible to embody all of the best features in any one particular design; a furnace that would most efficiently meet all the conditions on the Pacific Coast, where the weather is uncomfortably cold only for a few hours in the morning and warming up to a tropical temperature during the day, would prove a sad failure if left to its own resources in the more steady climate of the Middle West or the severe blizzards of New England and the entire northern section of our country. On the other hand, a furnace which would stand up to all the requirements under these latter conditions would prove very inefficient and unnecessarily wasteful of fuel if given a try-out in a milder and more changeable climate.

Here, then, is the dividing line. If a furnace is to be designed to give the most efficient service in a mild and changeable climate it must have distinctive features—the radiator should be as thin as it is consistent with durability, so as to present the highest temperature possible to the passing current of air.

Our Whirlpool Draft Furnace



Features

1. Burn anything combustible. Hence low cost of fuel.
2. Quick results from firing. Hence absolute independence of sudden temperature changes.
3. Whirling draft. Hence full heat value of fuel entirely obtained.
4. Very high ash pit. Hence grates cannot possibly burn out.

With the foregoing facts fully in mind it is not hard to appreciate the high degree of efficiency which is attained by our "WHIRLPOOL" DRAFT FURNACE shown in the accompanying illustration.

For efficiency and durability under the changeable conditions outlined in the foregoing, and lowness of cost, we back this furnace against anything ever before offered. Requiring heat one day, none the next, only enough to take the chill off the rooms in the early morning, and so on, this furnace shines out above all others. A handful of wood, cobs, newspapers, or anything combustible will take the chill off your rooms in 10 minutes, and, where wanted for a long time, the fire can be kept so low that seemingly no fuel is consumed. However, we do not wish to convey the impression that this furnace is exclusively a wood burner. This is one of the very points on which our designers spent their utmost efforts, and we have produced a furnace which will take the chill off your rooms with a few handfuls of shavings or will take on a heavy hard or soft coal fire to provide for a sudden drop in the mercury with just as much indifference.

QUICK RESULTS FROM FIRING, AND HIGH POINT OF EFFICIENCY IN A VERY CHANGEABLE CLIMATE. Those are the points which our engineers have hammered on to the limit. If these are your climatic conditions you will make no mistake in selecting this furnace. As to their general details, no stone has been left unturned. The large, roomy combustion chamber permits the burning of anything combustible. The large firing door will allow very large stumps or chunks of wood to be thrown into the fire without difficulty. The fire-pot has been molded in two separate parts, which does away with all danger of cracking and allows sufficient leeway for expansion and contraction when the fire is starting up or cooled off suddenly. Also note the deep ash-pit and the large casing for the circulation of the cold air.

We furnish with each furnace a complete set of trimmings, such as a regulator plate with chains and pulleys, etc., shaker, poker, check damper, cement and water-pan.

OUR ECONOMY FURNACE

To meet the other conditions, where the climate is more steady and severe, we have designed our "ECONOMY" FURNACE shown in the accompanying illustration.

All of the best features in our "WHIRLPOOL" DRAFT FURNACE have been skilfully retained and brought out in this furnace and at the same time those particular points of design which necessarily had to be changed to meet the conditions have been very carefully altered, and the highest point of efficiency in the furnace under those particular conditions is the result. The castings had to be made heavier, and to overcome this and to properly transmit the heat they had to be designed in the most scientific manner possible.

Note the peculiar construction of the radiator body of this furnace. The entire fire-pot is cast in two separate sections and the radiator casting is deeply corrugated and divided in the center so as to allow for all excessive expansion and contraction which will develop when a very hot fire is being carried.

This furnace will burn either hard or soft coal or coke and will hold a long, steady fire for 12 hours at a time.

By thus specializing and separating the particular features which are most desirable to meet the general conditions of climate in our country it can be seen very clearly that we can embody in two furnaces all of the best points of design which render each especially well adapted for the particular requirements which it will have to meet. The question now remains—Which of these furnaces is best adapted to your particular case? You can very easily decide this after carefully reading what has been said, and you can rest assured that in ordering either of these furnaces you will be securing the entire benefit of the long and careful study which our engineers have given to this problem. If you install one of these furnaces in your house we can safely say that you have a furnace which represents the very top-notch of engineering perfection.

The general principles set forth in the foregoing pages have all been recognized by heating engineers for many years past. However, it remained for us to properly analyze this problem and demonstrate the fact that if a furnace is to give the most efficient results it must be designed for the special conditions which it is to work under. We have divided these conditions into two classes, and from our long experience in this heating business we are sure that there is no need for any further division. By specializing on these two particular furnaces and pushing their best features to the limit, at the same time cutting out all undesirable features, we can place these furnaces before our customers with the absolute assurance that they will give perfect satisfaction.

Water Coil can be Inserted here.

HEAVY CASTINGS SUBSTANTIALLY BUILT, NOTHING CHEAP IN ITS CONSTRUCTION.

Prices below are F.O.B. Our Factory in Mich. Will quote Freight Prepaid or F.O.B. Chicago on Request.

No.	Size of fire-pot	Size of casing	PRICES AND DIMENSIONS. Height	Capacity in cu. feet	Weight	Price without casing	Price with double-lined casing
No. 17-A-13	20-in.	34-in.	48-in.	8,000	700 lbs.	$27.50	$34.25
No. 17-A-14	22-in.	40-in.	52-in.	10,000	850 lbs.	33.50	40.90
No. 17-A-15	24-in.	44-in.	54-in.	14,000	1,000 lbs.	39.85	46.95
No. 17-A-16	26-in.	48-in.	56-in.	18,000	1,200 lbs.	47.95	55.85
No. 17-A-17	28-in.	50-in.	58-in.	22,000	1,400 lbs.	60.50	69.25

Our Whirlpool Draft Furnace

Price only
$24.95

Here is a furnace that you can depend upon. The large steel radiator drum gives instantaneous results in heating, and the special construction of the furnace with the Diving Flue feature and Whirling Draft gives the utmost efficiency out of the fuel. The great feature about this furnace is that it will burn anything combustible you can throw into it—shrubs, cobs, newspapers and rubbish of every kind and description can be burned up to very good advantage in this furnace. It makes a very good furnace for heating stores and places of that kind, where considerable wood and combustible rubbish of every description are always available. This furnace is the ideal furnace for using up this fuel.

Note the large firing door, which will take in very large chunks of wood, and very deep ash pit, which renders it almost impossible to burn out the grates. Every part of this furnace has been given the utmost attention in designing.

The details have been worked out so carefully that the highest point of efficiency is obtained. This furnace has been specially designed for heating residences, stores, etc., and we guarantee absolute satisfaction. Remember, it is not a difficult matter by any means to set this furnace up. It does not require the services of an expert to put one of these furnaces in your home. The matter of setting up this furnace is just as easy as setting up any heating stove on the market. It is apparent from the illustration shown herewith that it is very simple to assemble the various parts of this furnace. It is simply a matter of starting at the base and building one casting after another and bolting each one properly, according to the complete instructions, which we furnish with each furnace.

When you place your order with us for entire equipment, we, of course, fit you out with a complete detailed blue print covering every part of the work, all pipe sizes are fully indicated and the exact location of each register is shown clearly, so that you cannot possibly go wrong. We figure from the sketches which you furnish us and design entire equipment to the best advantage, taking all things fully into consideration, and when our plans are followed the outfit is bound to work. You take no chance whatever in the matter.

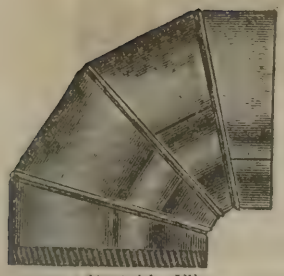
Every furnace equipment is backed by our guarantee bond, and we stand behind this guarantee with our entire capital. Note the wonderfully low price at which we are able to offer you this high-grade furnace.

BURNS ANYTHING COMBUSTIBLE.

Prices and Dimensions

No.	Size of Fire-Pot	Size of Casing	Height	Capacity in Cubic Feet	Shipping Weight Including Casing	Price Without Casing	Price with Double Lined Casing
434	20-in.	34-in.	48-in.	8,000	525 lbs.	**$24.95**	**$31.00**
438	22-in.	38-in.	50-in.	10,000	750 lbs.	**31.00**	**38.75**
442	24-in.	42-in.	52-in.	14,000	825 lbs.	**37.00**	**44.75**
446	26-in.	46-in.	54-in.	18,000	970 lbs.	**45.00**	**53.25**
448	28-in.	48-in.	56-in.	22,000	1125 lbs.	**55.75**	**63.75**
458	30-in.	58-in.	56-in.	30,000	1275 lbs.	**67.75**	**77.50**

The above prices are all f. o. b. cars our factory. We will quote you prepaid prices to your station on request.



Adjustable Elbow

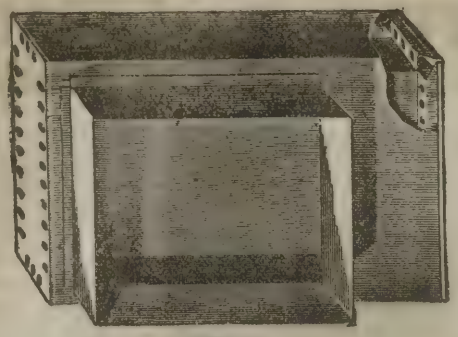


Figure 2

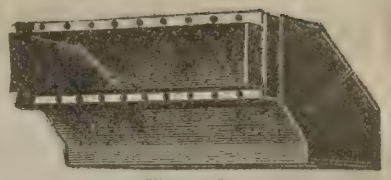
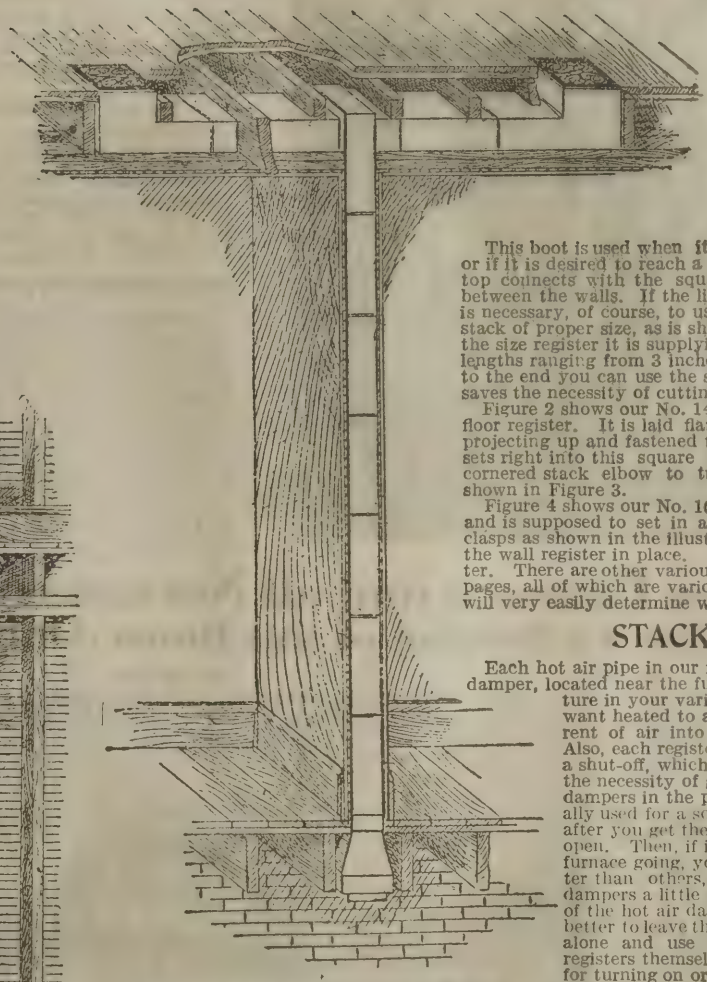


Figure 3

THE ADJUSTABLE ELBOW

Without this it would be almost a practical impossibility to do a good, neat job of piping in connecting up a furnace. A close examination of the elbows for connecting up this hot air pipe, as furnished to you in your furnace outfit after you receive it, will very soon make clear to you how it is possible to make practically any angular turn with this pipe leading from the furnace. Note that these elbows can be adjusted so that they will turn any angle from a straight piece of pipe to a full right angle of 90 degrees, and they can be so adjusted to form an angle in between these two extremes. You can very readily see that it is not a difficult matter to make these connections without any trouble whatever. Also, if it is necessary in running the pipe to make any angular turn of any kind in order to get around a brick pier or a chimney in the basement, it can be very easily turned at a close angle by using an adjustable ell at some intermediate point in the pipe.

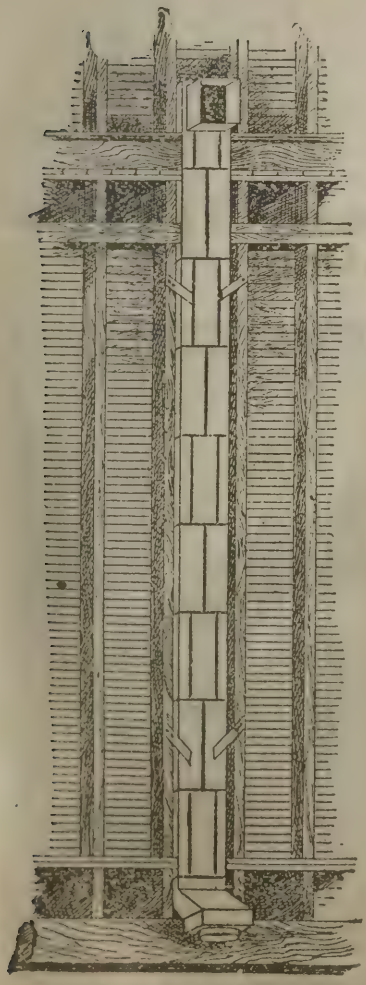
Figure No. 1 shows a No. 8 boot: a fitting extensively used in this work.



This boot is used when it is desired to reach a second floor register, or if it is desired to reach a first floor wall register, as this rectangular top connects with the square-cornered pipe which is used going up between the walls. If the line of piping feeds a second floor register, it is necessary, of course, to use wall stack in the wall, and we furnish this stack of proper size, as is shown in our blue print plans, depending upon the size register it is supplying. We furnish this wall stack in assorted lengths ranging from 3 inches long to 2 and 3 feet, so that when you get to the end you can use the small pieces to make close adjustment. This saves the necessity of cutting up this square-cornered pipe.

Figure 2 shows our No. 14 stack head, which is used for a second floor register. It is laid flat between the joints with the square flange projecting up and fastened to the opening in the floor and the register sets right into this square opening. It is necessary to use a square-cornered stack elbow to turn down when using it in stack head, as shown in Figure 3.

Figure 4 shows our No. 10 stack head. This is used for wall registers, and is supposed to set in an upright position. You will note the ring clasps as shown in the illustration, which are for the purpose of holding the wall register in place. This stack head is always used for wall register. There are other various fittings which are listed in the following pages, all of which are variously understood, and a little careful thought will very easily determine which of these fittings you may desire.

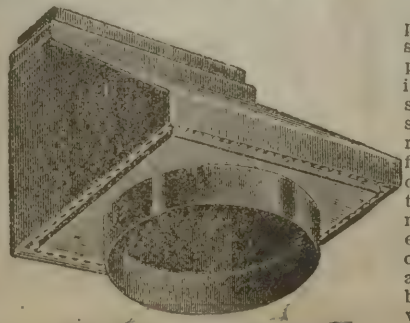


Showing Stack, Boot and Stack Head in Partition

Showing Stack and Fittings in Building

STACK AND FITTINGS

Each hot air pipe in our furnace equipment is furnished with a hot air damper, located near the furnace so that you can control the temperature in your various rooms, and if there are any rooms you want heated to a higher temperature you can divert the current of air into such rooms by shutting it off in the others. Also, each register in our furnace equipment is provided with a shut-off, which can be operated in the room. This avoids the necessity of going down into the basement to operate the dampers in the pipes. The dampers in the pipes are generally used for a sort of permanent adjustment. In other words, after you get the furnace set up, have all the hot air dampers open. Then, if in the course of a week after you get the furnace going, you find that some rooms draw the heat better than others, and become too warm, you can turn the dampers a little and equalize it. This is really the purpose of the hot air dampers, and after they are once adjusted it is better to leave them alone and use the registers themselves for turning on or off the heat.



NO. 8, BOOT WITH COLLAR

Figure 1

We furnish complete detailed instructions and blue print plans for each individual case, and should there be any special instructions required in our outfit, we will, of course, prepare them, and there is no question whatever but what our outfit, if installed according to our blue print plans, will work perfectly and give you entire satisfaction in every way.

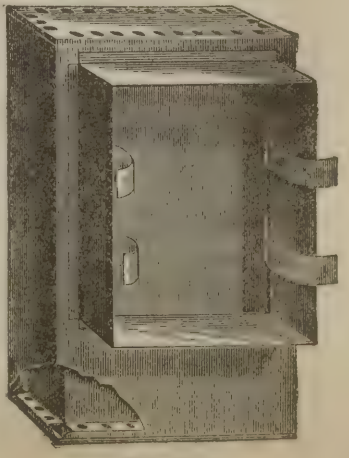


Figure 4

HOT AIR HEATING EQUIPMENT $99.50
Complete for This Modern Eight-Room House, Only

We can furnish this house complete with one of our brand new furnace equipments guaranteed large enough to heat the entire building to a comfortable temperature in all conditions of weather, based on Chicago climate, for only **$99.50.** This will include registers as follows:

FIRST FLOOR

Living room, 12'6"x15'6".....1 Floor Register
Dining Room, 11x14.....1 Floor Register
Hall, 9x15.....1 Floor Register
Hall to be furnished with a cold air face of proper size to handle the entire equipment.

SECOND FLOOR

Chamber, 11 ft. 9 in. x 13 ft. 6 in..1 Wall Register
Chamber, 6 ft. 6 in. x 9 ft. 3 in..1 Wall Register
Chamber, 11 ft. x 14 ft.....1 Wall Register
Chamber, 9 ft. x 10 ft.....1 Wall Register

FURNACE

The furnace we will furnish on this equipment is our No. 24 Economy Hot Air Furnace, which is positively one of the best on the market at the present time. This furnace will be furnished complete with double lined casing and top bonnet, etc., and is also tapped to receive a water coil so you can heat water for domestic purposes, if you wish to do so.

THE ENTIRE EQUIPMENT FOR ONLY $99.50

In addition to the above, we will furnish everything necessary to install this entire Hot Air Heating plant in this house in a first-class, workmanlike manner, including all necessary tin hot air pipe, wall stacks, boots, offsets, register boxes and fittings of every description that will be required to make all connections; everything with the exception of the cold air connecting pipe between the furnace and the cold air face. This you can build yourself out of an ordinary wooden box according to instructions which we furnish.

We also furnish with this outfit the smoke pipe connection between the furnace and the chimney, and dampers for all the hot air pipes.

No. 26 Economy Furnace and all Necessary Equipment for the Hot Air Heating of this House, Only $116.55

For $116.55 we can fit this house out, complete, with a modern, up-to-date Hot Air Heating Equipment, including a register in every room. This is a rather large size house, 25 ft. wide by 36 ft. deep, and contains 7 rooms; bath-room and two halls.

REGISTERS

The Registers furnished with this Equipment are brand new Black Japanned Hot Air Registers with shut-off attachments. The registers will be placed in the following rooms:

FIRST FLOOR

Living room, 14x15'.....1 floor register
Dining room, 13'6"x14'.....1 floor register
Kitchen, 9x10'.....1 floor register
Hall, 8x12'.....1 floor register
One cold air face, also to be placed in this hall, of proper size to take care of the apparatus.

SECOND FLOOR

Chamber, 11'6"x12'.....1 wall register
Chamber, 8'x11'6".....1 wall register
Chamber, 8x12'.....1 wall register
Chamber, 14x15'.....1 wall register
Bathroom, 5'6"x8'.....1 wall register

FURNACE

The Furnace we include in this equipment is one of our **No. 26 Economy Hot Air Furnaces** with double lined casing, top bonnet and all necessary attachments, including smoke and pipe outfit, dampers, etc., and chain regulators.

In addition to the above we will furnish everything to complete the entire equipment with the exception of the cold air connecting pipe between the furnace and the cold air face. This you can build yourself out of an ordinary wooden box according to instructions which we furnish.

No. 17-A-19.

Hot Air Heating—General Instructions

How to Secure Our Estimate

First get our information blank. Read this information blank over very carefully and answer every question as fully as possible. Do not slight any of these questions as it is necessary for us to have all this information in order to properly determine the size furnace you will need, the size pipe in each room, where the registers should be located, etc. If any of the questions in regard to the direction of the winds, the construction of the walls, or concerning the surroundings, etc., are slighted we of course will not be in position to figure accurately the size plant you will require.

In addition to the information called for on this blank it is necessary for us to have a small sketch of the floor plan of your house, something similar to the plans shown on the foregoing pages. This does not need to be drawn to scale; you can sketch it off with a pencil, and as long as you indicate the exact size and location of each outside door and window on this plan, and mark the name of each room, giving us the size of same, this is all we will require. You might also mention any rooms which you do not wish to heat.

When you have this information blank properly prepared you can mail it to us and we will immediately turn the entire matter over to our engineers, who will carefully go into details and figure out the exact size registers you will require in each room, just where it should be located, etc., and we will make you an interesting proposition on the entire outfit by return mail. We, of course, will be glad to have any suggestion which you may wish to offer so that we can give same their due consideration.

We Make No Charge for This Estimate

This service on the part of our engineers is given absolutely gratis to our customers. We are so positively sure that we will have your order on the basis of the prices which we are in a position to quote you, that we are willing to go to all this trouble for nothing if you are convinced that it is not to your interest to favorably consider our proposition.

After we have our estimate completely prepared we then submit our proposition to you, and after it meets with your entire approval, you send us in your order with a remittance of about $25.00, to bind the bargain, and we then turn the entire proposition over to our Engineering Department, who again go into the matter and carefully lay out the complete blue print plans of the entire apparatus showing just how all piping will be run, etc. In addition to these blue prints we furnish you all the necessary instructions covering every connection on the entire plant.

It is in the designing of the plant that we spend the greatest time and effort, and all the information you furnish us is carefully considered, so that you can readily see the importance of giving us all the information possible if you wish to have your furnace designed to give the most efficient results.

After these plans are completely prepared we make up the entire bill of material in accordance with these plans and we send the order through so that when the plant reaches you it will correspond exactly with the blue prints which we have by this time mailed you. You will know just where to start, and you can follow our blue prints right through until the very last register is connected up.

We are in a position to furnish you with absolutely everything that will be required to completely equip your home with one of these furnaces, to the very last detail. We have given just as much careful thought and study to the manner of installing this equipment as we have to the furnaces themselves. Every fitting and register, etc., is designed in the most scientific manner possible. The wall pipes which we furnish with our furnace are all so constructed that there is one-inch air space surrounding the entire pipe, and the registers are especially designed to work in harmony with this feature, being also of double construction, so that there is constantly going on a complete circulation of air between the two casings at all times. The air entering at the bottom of stack through holes provided for the purpose, and passing out of the top through similar holes in the floor and wall registers, forms an absolutely fire-proof insulator and does away with any possible danger. This feature can readily be understood by referring to the accompanying illustrations which show a section of the wall casing and two of the numerous forms of registers which are required in the average dwelling.

There is another feature which we have given especial attention in designing this apparatus, and that is

Simplicity of Assembling

We realized fully that these furnaces, in the majority of cases, would have to be set up by our customers themselves, and we have arranged the sections in such a simple manner that a fourteen-year-old boy could, without any difficulty, set up the entire apparatus with the aid of the very clear instructions which we furnish. The item of labor in installing one of these furnaces is practically not to be considered. You can set the entire plant up in five or six evenings, and the work is so easy that it is mere pastime. Furthermore, when you get it installed you will have a furnace which you can depend upon to give results, and you can rest assured that it will be installed right. You cannot possibly go wrong; the exact location of every register and the exact size of every pipe is carefully determined by our highly skilled engineers who carefully consider all of the conditions as explained in the information blank which you furnish us to get our estimate, and everything is determined with scientific accuracy. If you let the job to your local tinner who has not had the scientific training necessary for designing a furnace of this kind he would probably locate the register in some corner of the room, which might look all right to him but under the conditions which the furnace would be working you would find after you tried to heat this room in certain kinds of weather that it would be absolutely impossible to get the air to circulate in this direction. For this reason it is a very important matter where these registers are located, and the prevailing winds in your locality, the construction of your building, the surroundings, etc., all have to be carefully considered and weighed.

We take this entire responsibility upon ourselves, however, and when you get the furnace and your working drawings, this has all been carefully figured out for you, and all you have to do is to follow our blue prints.

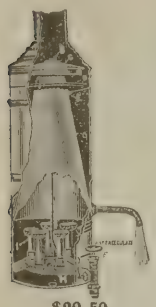
We Loan You the Tools

We loan you all the necessary tools, of which there will be very few, required to connect up all the piping. You will be at no expense whatever for these tools except for the expense of return freight charge.

Write at once for our Complete Heating Catalogue

PLUMBING DEPARTMENT

You will find in our Plumbing Department the largest and most varied line of first class material in the country at prices beyond comparison. Give the pages devoted to this section your careful consideration. We save you money.



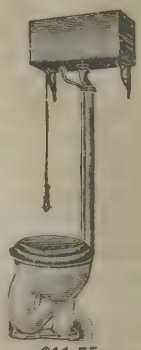
$20.50

From Factory to Consumer.

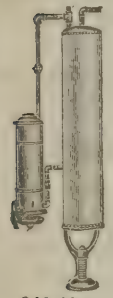
Never before in the history of the plumbing business has the direct channel between the manufacturer and the consumer been so completely opened up in the plumbing line, as we have opened it, through our original organization selling methods.

Up to the present time it has been practically impossible to break through the stone wall fortifications of the Plumbing Associations and combines and the entire business was practically tied up, so that the ordinary buying public could hardly purchase an article in the plumbing line at any price and the prices that plumbers have been asking and are asking today for their material is almost double or three times what would be sufficient to cover the reasonable cost of manufacture for these goods and still provide for a fair and honest profit. You will therefore not find it hard to understand how it is possible for us to more than cut your plumber's prices in half on exactly the same material which he figures for your job and there is really nothing so very wonderful about it after all.

We sell every item in these pages down to the smallest minute fitting listed, at the very closest margin of profit that it is possible for us to figure and operate our business successfully. We figure prices down to a cent in every case and we give you the benefit of every possible saving. Every one of these selling prices have been determined with a scientific accuracy.



$11.75



$10.00

Our Complete Cost Keeping System.

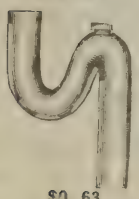
We have installed in our office one of the most complete Cost Keeping Systems in existence and our customers reap the benefits. We know to a fraction of a cent what we can safely figure on as a reasonable profit on every item, no matter how minute it may be and still successfully carry on our business. With such a positive indicator as this, we are able without risk to keep our prices adjusted to the lowest possible limit.

$1.50

Our Sales Are Enormous.

We distribute this material over every state in the Union. We number our customers by the millions and with such an enormous patronage, it is not hard to surmise the enormity of the amount of this material that passes through our hands each year. Owing to this enormous patronage and the extraordinary volume of material which we dispose of, it is not hard to understand how it is possible for us to figure on such a close margin of profit and still operate our business successfully.

$0.56



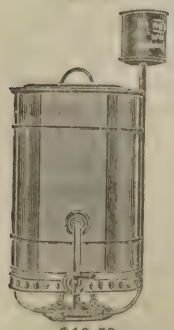
$0. 63

The Producing.

The plumbing material offered in these pages is all manufactured for ourselves under contract. Enormous sales mean enormous contracts and enormous contracts for the manufactured material naturally mean close prices and economical manufacture.

It is an established fact that the greater the quantity, the cheaper an article can be manufactured. We operate our factories throughout the entire year and by guaranteeing our enormous contracts in this way and keeping our factories working up to their maximum economical efficiency, it permits us to offer this material at a price which has never been equaled in this business and our customers secure the benefit of this economical working system to the fullest extent, as is shown by the prices that we are able to quote.

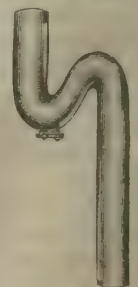
$3.00



$12.50

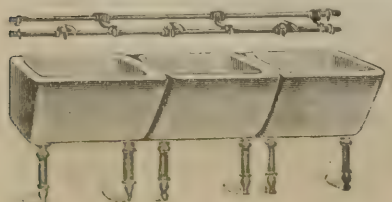
Our "A" Grade Fixtures Perfect Beyond Question.

We have classified in the following pages three different grades of material. Our strictly "A" grade material, which is guaranteed to be brand new and perfect in every way and free from blemishes of any kind. We will positively guarantee this "A" grade material to stand up in comparison with any material manufactured at the present time. The quality of our "A" grade fixtures is of the **highest,** and we sell it at the **right price.** Our strongest argument for our strictly "A" grade class of plumbing fixtures, as described in the following pages is "Quality" and we will back these fixtures in quality, as before stated, against any fixtures manufactured at the present time in the United States, regardless of who makes them. We offer these "A" grade fixtures to our customers with the absolute guarantee that if on their opening up they do not prove to be up to representation in every way and if they are not exactly as represented to the fullest extent, you have the privilege to return them to us at our expense and we will refund your money and stand all freight charges that have been incurred. In fact, this binding guarantee holds for every item which is listed in this book We represent our material just as it is and we stand back of the descriptions given in these pages to the limit.

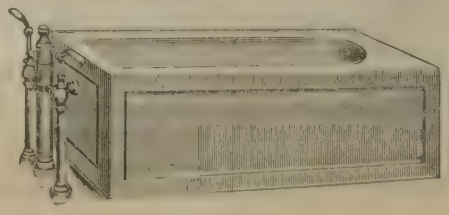


$1.02

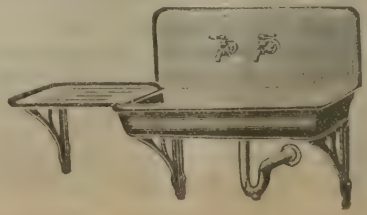
$2.00



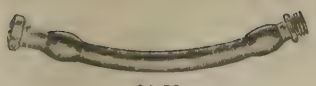
$7.50 each

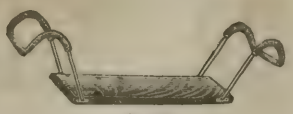


$33.50

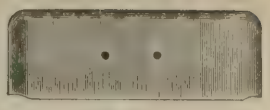


$12.00


$1.50


$ .85

$12.00


$1.50

$12.00

Our "B" Grade Fixtures Guaranteed as Represented.

In addition to our strictly "A" grade line of material, as above called to your attention, we have what we classify as "Seconds." The fixtures in this class are some which probably left the factory in perfect condition, but in shipping they may have received some slight jar in rubbing against each other or something of that kind and when they reach our plant, after being put through the second rigid inspection, they are sorted out and put aside and classified as class "B" material, or second-grade. These fixtures which are often damaged to such a slight extent that the blemishes are scarcely noticeable, we quote an extraordinary low price and it is possible to secure exceptionally rare bargains in this line.

If you wish to figure as close as possible on your job, this gives you an opportunity to work in a strictly brand new outfit which has never seen any service whatever and which has only some very slight defects, at a very low price and you can make a tremendous saving by using this "B" grade material. We represent it just as it is and we know that you will not be disappointed if you place an order for any of these fixtures in this class.

The castings are guaranteed to be absolutely sound and the "B" grade closets are guaranteed to be suitable for further service and not damaged to such an extent as renders them unfit to hold water or suitable for further service. Any of these fixtures that are damaged to such an extent as this, are immediately relegated to the scrap pile without hesitancy and we would much rather do this any time than send them out on an order and have the customer displeased.

$ .60

$ .45

$ .45

$1.70

$ .85

$1.90

Our Complete Heating and Plumbing Instruction Book Absolutely Free to You.

We have had especially prepared, for the benefit of our customers, at considerable expense, one of the most complete detailed instruction pamphlets that has ever been issued. We have combined these instructions with our special heating catalogue and this entire book will be cheerfully mailed to you free of charge, postage paid, on request.

$ .59

$ .44

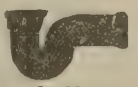
Our Special System of Iron Pipe Connection.

This system makes it possible for anyone to do their own plumbing. We have made arrangements whereby, if you wish, we will have our plumber wipe all joints for you on all of the fixtures right here in our plant before shipment is sent forward. We will provide all of the various fixtures with iron pipe connection on the outlets so that there will be no wiping of joints or soldering of any kind to be done on the entire job and any man who can cut and thread iron pipe will be able to install the entire system by following our very simple instructions.

We can arrange it so that you can use 1½" galv. iron pipe from the bath tub: 1¼" galv. iron pipe from the lavatory and 1½" galv. pipe from the kitchen sink, using regular pipe and fittings to make turns, etc., and this simplifies the installation of the plumbing system to a wonderful extent.

$ .60

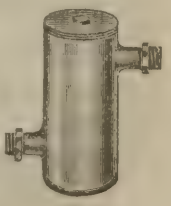
$ .50


$ .32

$ .10

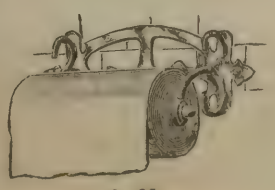
We Loan You Tools.

For the convenience of our customers we have also made arrangements whereby you will be put to absolutely no expense whatever in regard to tools. It is not necessary for you to go to work and buy a brand new set of tools and throw them aside after you have installed the material. For every order for a complete plumbing system amounting to one hundred ($100.00) dollars or more, we are willing to loan our customers the necessary tools to install their material. When you are through using these tools you can return them to us and we will refund you the money charged you for them, less the return freight charges.


$2.75

$ .70

$1.20


$ .65

$12.00

$ .45

$17.25

FOR ONLY $92.50 WE CAN FURNISH COMPLETE
The Entire Plumbing System for This House as Shown

This equipment includes one of our No. 5-A-4½. Bath Room Combinations complete with strictly A grade fixtures throughout, 1-30 gallon iron range boiler, 1-K-39 kitchen sink, white porcelain enameled with roll rim, drain board, etc. together with all the necessary roughing in material to complete the entire equipment above the ground line.

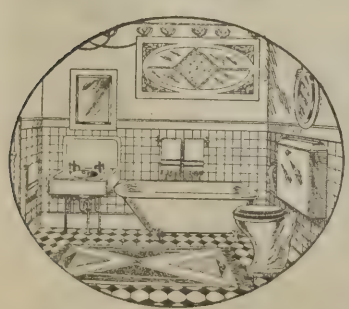
With this equipment, we will furnish complete detailed blue print plans covering the entire installation of the plumbing system, showing how and where each fitting is used and you cannot possibly go wrong in the matter.

We can furnish you the complete plumbing system for this modern building for only **$92.50.** Everything guaranteed strictly "A" grade and perfect in every way.

THE FIXTURES

The bath-room outfit we furnish in this proposition will be our No. 5-A-4½ Complete Bath-room Outfit as described. We will provide the fixtures with iron pipe connection so that you can use galvanized iron waste pipe, so you will be able to get the entire system installed without the services of a plumber.

PLANS AND INSTRUCTIONS



We furnish complete plans and instructions covering the entire installation of this material and we will cheerfully give you every possible assistance in getting same installed. We loan you all the necessary tools for installing this entire plumbing system, so that you will not be dependent on your plumber in any way. When you are through using these tools, you can return them to us and we will refund the money charged for them, less the return freight charges.

We Can Furnish Less Expensive Fixtures If Desired

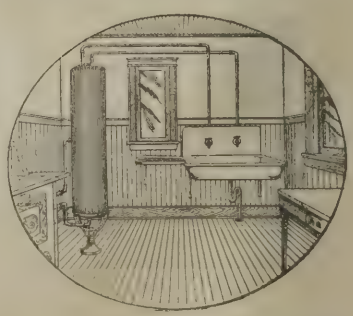
Note that the fixtures we have selected in this proposition are very high grade and it would be entirely possible for us to cut down the cost of the equipment by figuring in less expensive fixtures, which we are very willing to do if you desire. For instance, we can furnish you with a less expensive bath-room outfit, less expensive kitchen sink, and in this way we could possibly cut down the cost to the extent of twenty to twenty-five dollars. The proposition lined up above, is of course, only a suggestion. It is really a very rare bargain and we have selected what we consider the best offer in bath-room fixtures and kitchen sink, but we are of course, able to furnish you less expensive fixtures if you want us to figure on them.

Send us plans of your house at once. Give us an idea of what bath-room fixtures you want us to furnish you and we will make you a proposition accordingly. We can certainly save you very considerable money and we help you out in the installation of the material in every way we possibly can.

THE KITCHEN OUTFIT

We will furnish in this proposition will include one of our K-39 roll-rim, cast iron, genuine white porcelain enameled kitchen sink, complete with high back, reversible drain board, brackets and trap and Fuller flanged faucets. This sink is guaranteed "A" grade and perfect. Size of sink 18x30".

We will also furnish you with one of our 30 gallon galvanized range boilers, guaranteed to stand 200 lbs. test, complete with stand, tube and couplings for iron pipe connection.



THE ROUGHING IN MATERIAL

With this proposition, it is understood that we are to furnish all necessary roughing in material including all necessary 4-inch cast iron soil pipe, caulking lead, oakum, galvanized iron supply and waste pipes; everything of every description to complete the entire equipment in a first-class workmanlike manner. This to include all galvanized pipe to supply hot and cold water to each of the various fixtures including the lavatory and bath tub and kitchen sink, and cold water to the closet. All this roughing in material guaranteed absolutely brand new and perfect. We are not to furnish any water supply spstem. It is understood that the water is already piped to some convenient point in the building where we can make connection. We are to furnish only the material required from the ground line up. Special low price for this complete plumbing system for this building, only **$92.50**

Only $98.00 for the Complete Plumbing System for This Entire Building—Modern Fixtures—Everything Brand New "A" Grade, and Perfect in Every Way

Plumbing Proposition No. 10.

This proposition covers all ordinary requirements for the average sized residence. We can duplicate this offer for practically any house plan at this wonderfully low price.

Remember this proposition includes all necessary material to complete the entire equipment above ground line with complete plans and instructions for installing.

For $97.50 we can completely equip this modern, up-to-date dwelling-house with the entire plumbing system, including everything from the ground line up. This you understand does not include the mere fixtures, but includes all necessary pipe, fittings, lead traps, connections, etc.; everything to complete the entire equipment, and complete working plans for installing.

The Fixtures

We show on this page an illustration of the various fixtures which we furnish in this proposition. The Bath-room Outfit will be our No. 5-A-4½ Bath-room Outfit fully described on the preceding page. This is the most modern and up-to-date outfit that we could possibly furnish you.

The kitchen outfit includes one of our K-39 roll rim kitchen sinks, with enameled iron reversible drain-boards, roll rim back, faucets, trap, brackets, etc., complete.

We will also furnish you with one of our 30-gallon galvanized range boilers, complete with stand, tube and couplings for iron pipe, and the outfit will be complete in every way, with the exception of the water front or water-heating arrangement which you will need in your kitchen stove. We can furnish you with a cast-iron water front for any stove manufactured, for an additional cost of $5.00. If you wish us to include a water front with your order, be sure and give us the manufacturer's name, etc., of your stove when you send your order in.

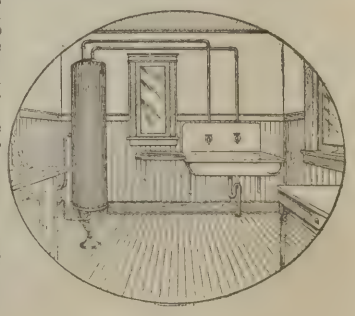
Quality

Every fixture in the entire equipment will be guaranteed strictly "A" grade and perfect in every way.

Roughing-in Material

It is to be understood that we are to furnish everything from the ground line up, including all necessary 4 in. standard soil pipe, offsets, soil pipe tees, caulking lead, oakum, fittings, etc., including sufficient 2 in. soil pipe stack to make a separate vent pipe for the kitchen sink. In this particular house design the kitchen sink is not located directly under the bath-room, and it is necessary for us to figure on a separate 2 in. soil pipe stack for this sink, which is fully included in the above. All this roughing-in material to be absolutely brand new and perfect in every way. In this proposition we are planning on a good sanitary job of drainage, but we do not propose to follow any special city ordinances in the matter. We will carry a 2" vent pipe from the ground line to the roof of the building which will provide ample ventilation, and we are not figuring on re-venting any of the fixtures. All connections will be made directly into the soil pipe stacks.

It is also assumed by us that you already have the water connection under pressure. If you have no means of water supply, we will be glad to quote you on a complete air pressure system, or an elevated tank system, whichever you desire. We can furnish you with either of these systems and we guarantee satisfaction. Note the complete description of these systems as given elsewhere in this book.



Working Plans

We will furnish you with complete working plans and instructions covering the entire installation of this material, and we will cheerfully give you every possible assistance in getting it installed.

SPECIAL OFFER

We Loan You Tools

On all orders placed with us for a complete outfit such as this, we have decided to loan our customers all necessary tools for installing. We are to charge you in full for these tools, and the full amount of the charge to be refunded to you upon the tools being returned to us in reasonably good condition; that is, not broken or damaged beyond the due allowance for ordinary wear.

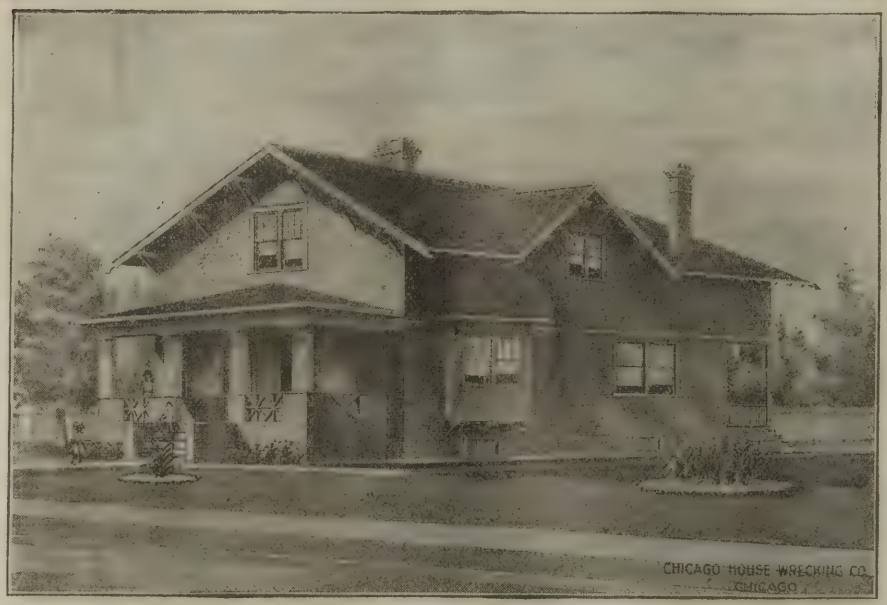
Special price for this complete plumbing system as above described for this entire building, only $97.50.

Your house may differ slightly from this. Send us a rough sketch of your bath room and your kitchen, including the entire first floor and the entire second floor at once. Mark where you want the fixtures located and we will make you a complete proposition and we will guarantee to save you money.

Complete Plumbing Equipment for This Modern Residence

Plumbing Proposition No. 14

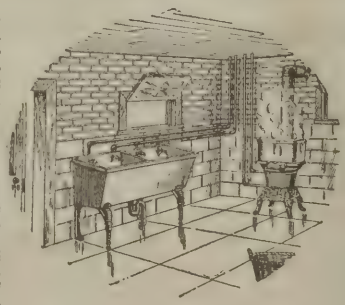
This proposition covers practically every modern convenience in the way of a plumbing equipment for your home.



Remember we furnish you complete blue print plans and instructions for installing all of this material.

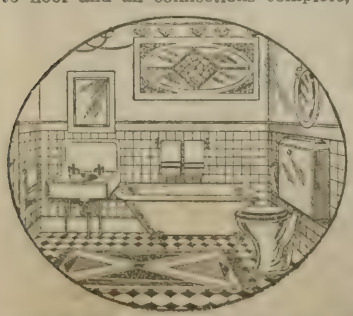
Including 2-part Laundry Tub, Complete Modern Bathroom Outfit, Kitchen Outfit Complete and One Rex Jewel Laundry Stove with all Connections, Only $121.90

For only $121.90 we can furnish everything to complete the entire equipment of the plumbing installation of this modern building, including Laundry Output, complete Bath Room Outfit, complete Kitchen Outfit, everything strictly "A" grade and perfect in every way. This includes complete working drawings for installing and also the use of all necessary tools.



THE FIXTURES

that we will furnish in this proposition will be as follows: One No. 5A-4½ Bath Room Outfit complete as listed and described, one K 39 Kitchen Sink, size 18x30, genuine white porcelain enamel with roll rim and reversible drainboard, faucets, trap, brackets, etc., one 30 gallon, brand new galvanized range boiler complete with stand, tube and couplings for iron pipe, one set of No. 6-2 part Economy Stoneware Laundry Tubs, complete with 2 pair of special Fuller laundry tray faucets, Short Lead "S" Trap to floor and all connections complete, one No. 62 W Rex Jewel Laundry Stove complete. All the above fixtures guaranteed strictly "A" grade and perfect in every way.



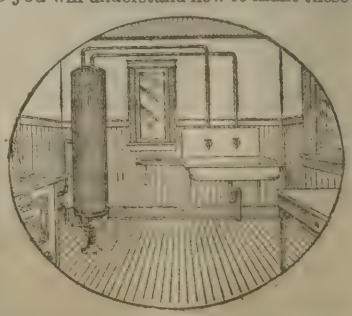
ROUGHING-IN MATERIAL

In addition to the above, this proposition includes all necessary brand new piping, including galvanized iron supply pipes, galvanized iron waste pipes, soil pipe, caulking lead, oakum, sheet lead roof flashing, lead traps: everything of every description to complete the entire equipment from the ground line up, assuming that the water is already piped to some convenient point in the building where connections can be made. This includes all necessary galvanized iron supply pipes: in fact everything of every description to complete all connections; hot and cold water to be supplied to each of the two laundry tubs, kitchen sink, bath tub and lavatory and cold water to be supplied to the closet; proper size pipe to be used throughout, and we to guarantee the system to work perfectly and give entire satisfaction.

WORKING PLANS

We will furnish in this proposition complete blue print plans and instructions covering the entire installation of every part of the material, so that mistakes are impossible. This also includes the use of all necessary tools for installing the entire equipment.

In this proposition, we are planning on locating the laundry stove in the laundry in the basement at some convenient place. This laundry tub and laundry stove to be connected with a tee connection to the kitchen boiler which will be located behind the kitchen stove in the kitchen on the first floor. It will not be necessary to use this laundry stove exclusively to heat the water as we can provide for heater connection to the kitchen stove so that either one, or both can be used. We will furnish a complete diagram of this so you will understand how to make these connections. All hot water connections will be taken out of the top of the range boiler, so when the water in this tank becomes heated and any faucet on the hot water line is open, the hot water can be immediately obtained.



If you have any special preference in regard to fixtures, other than the selection made you above, drop us a line at once and give us some sort of an idea of your requirements and we will be glad to quote you fully. The above proposition is, of course, only a suggestion to show you the amount of money we are able to save you on an equipment of this kind. It may be possible, however, that the above outfit will just fill your requirements, and if you send your order in at once, we can give you prompt shipment and we will at once proceed to make up your complete instructions, so that you will have no trouble in getting the material installed.

COMPLETE WATER SUPPLY SYSTEM

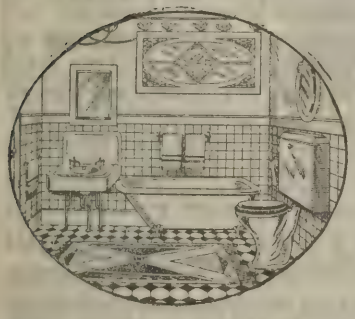
PLUMBING PROPOSITION No. 11

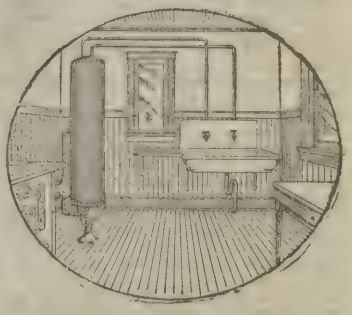
LAUNDRY EQUIP-MENT.

BATH ROOM OUTFIT.

KITCHEN OUTFIT

IN FACT THE COMPLETE PLUMBING AND WATER SUPPLY SYSTEM FOR THIS MODERN BUILDING ONLY **$174.90**





For only $174.90 we can furnish the complete plumbing outfit, including Laundry Fixtures, one of our complete, modern Water Works Outfit for this entire building; everything to complete the entire plumbing equipment in connection with these fixtures in this entire building above the ground line.

The Fixtures. This proposition is based on furnishing the following fixtures: One No. 5-A-4½ Bathroom Outfit complete; One K-39 Cast-iron White Porcelain Enamel Sink, size 18 x 30, complete with reversible drain-board, brackets, trap and faucets; One 30-gallon galvanized Iron Range Boiler, complete with stand, tube and couplings for iron pipe connection; One set of No. 6 two part stoneware Laundry Tubs, complete with 2 pair of special laundry tray faucets, 1½" short lead "S" trap and all connections complete; One No. 62-W Rex Jewel Laundry Stove with water heating jacket, etc.; One AP-21 Air Pressure Water Supply System, complete with combination air and water pump and all pipes, valves, water gauges, etc.; everything to complete the entire equipment. All the above material guaranteed absolutely brand new and perfect.

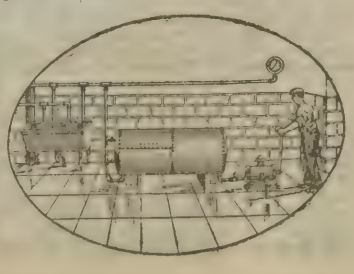
Roughing-in Material. It is to be understood that we are to furnish all necessary galvanized pipes, supply pipes, waste pipes, cast-iron soil pipe, caulking lead, oakum, sheet lead roof flashing, lead traps, connections, etc.; everything of every description to complete this entire equipment in this building in a first-class workmanlike manner. This also includes all necessary pipe that will be required in connection with the installation of this modern air pressure system which is included in this proposition. We will also furnish, not to exceed 15 feet of 1¼" galvanized iron pipe, to provide for the suction pipe between the pump and the cistern or well. It is to be understood that we are to furnish the entire equipment from the ground line up only. We will furnish a good sanitary system of plumbing, but we will not follow any special city ordinances. If you want the material installed according to special city ordinances, it will be necessary for us to have an exact copy of these ordinances before we can tell you exactly what the roughing-in material will cost. However, this proposition is based, as before stated, on a good sanitary system of plumbing, according to plans which we furnish, and is not based on following any special ordinances.

It is to be understood that we are to loan you all tools and furnish complete blue print plans and instructions covering the entire installation of this equipment. The bath tub, lavatory and kitchen sink, also the laundry tub, to be supplied with hot and cold water, and the closet to be supplied with cold water. All pipes to be of proper size throughout to convey a liberal supply of water to all fixtures, and this to include everything, with the exception of the water front for the kitchen stove. We can furnish you with a cast-iron water front, for an additional sum of $5.00.

We are to furnish all necessary pipe to complete the entire equipment and to connect the laundry stove in the basement up with the range boiler which is located in the kitchen upstairs, and we are also to provide a tee connection in this pipe so connection can be made with the kitchen stove and either the kitchen stove or laundry stove may be used to heat the water as may be desired.

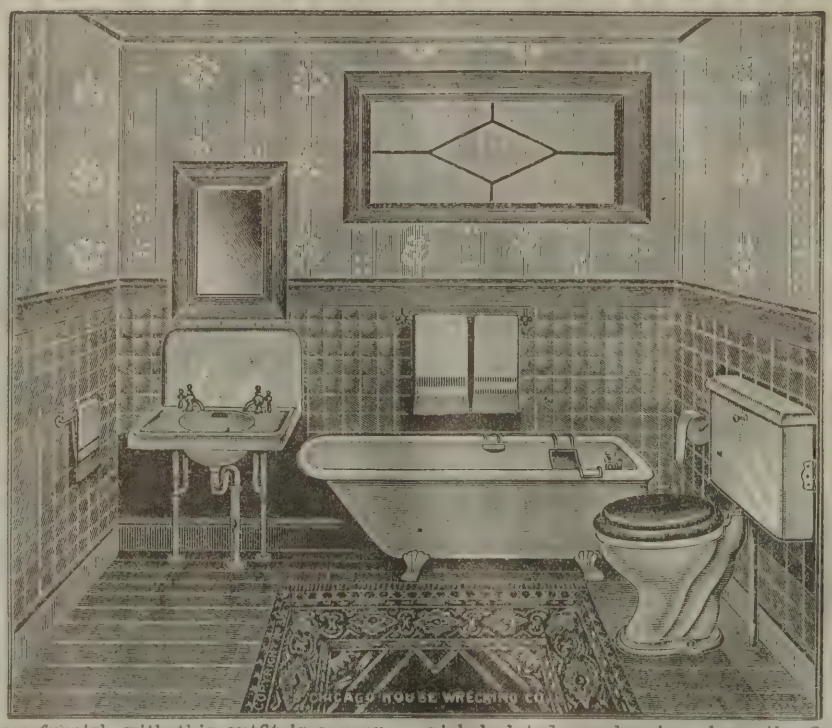
Special price on this complete equipment, only.....$174.90.

This price is f.o.b. cars Chicago. We will be glad to quote you freight prepaid prices on request. Write at once for our estimate. If the above proposition does not just fill your requirements, we will line up a proposition for you that will. Remember, we can save you money.



A MOST WONDERFUL OFFER

The special feature of this outfit is the closet. The closet furnished with this outfit positively represents the most modern and up-to-date ideas in closet construction that have been brought out up to the present time. Genuine white porcelain enameld steel tank, double lined with ½ inch air space between the linings. Sweating of the tank impossible. Highest grade bowl of most approved construction.



BATH ROOM OUTFIT No. 5-A-4½

ONLY **$37.50**

This outfit is certainly one of the greatest bargains ever offered in this line. It is one of the latest combinations. Every fixture guaranteed absolutely "A" grade and perfect in every way. Remember we guarantee satisfaction or your money will be refunded.

THE BATH TUB which we furnish with this outfit is a genuine white porcelain enameled cast-iron tub of regular standard weight and dimensions, being 5 feet long, constructed with heavy 3-inch roll rim, and is white porcelain enameled inside and over the rim. It is modern and graceful in shape and is fitted with the latest improved nickel-plated fittings, including nickel-plated Fuller double bath-cock, nickel-plated connected waste and overflow, nickel-plated supply pipes; everything complete above the floor.

This tub is guaranteed strictly "A" grade and perfect, free from defects of any kind. It is fitted with ornamental cast-iron legs, and painted red and green on the outside. It will be a very simple matter to put on a coat of white enamel on the outside of the tub, and if this were done after the tub is set in place, you would have an outfit that would look as well in every way as any of the outfits that regularly sell for $100 at the present time.

THE CLOSET: As we have already brought to your attention, the special feature of this outfit is the closet, and we may well make the claim that this closet outfit which we furnish in this bathroom combination is positively the very top notch of perfection in closet design. We certainly do not know of one outfit on the market at the present time that will surpass this outfit in the way of neat appearance, durability, superior workmanship and general design and construction. We say this regardless of what price may be demanded for such a closet.

This closet is equipped with the latest and most modern pressed steel genuine white porcelain enameled tank with double lining. This tank is constructed in two compartments; the outside compartment which is made of pressed steel and white porcelain enameled all over, both inside and outside. Inside of this, there is another separate compartment which holds the water, and between these two compartments there is one-half inch air space, which makes sweating of the outside of the tank impossible.

Another great feature of this tank is the ball cock. This is of the most substantial construction of the compound lever type. This ball cock will hold tight against the highest water pressure ever experienced. The compound lever arrangement renders leaking absolutely impossible. This lever is also equipped with an adjusting arrangement, whereby the lever can be set at different points so that the ball can be adjusted for different heights of water line in the tank. This is especially desirable if you are operating a tank in connection with a water supply system, where you have to pump the water. You can set this ball cock at the exact point, where you will have just sufficient water to flush the closet and no more. In other words you will not be wasting more water than is absolutely necessary.

This tank is equipped with a pressed steel white enameled cover to fit the tank, and the push button action is the simplest ever devised. The nickel-plated push button is located at the top of the tank in the center, which simplifies the working mechanism to very considerable extent and renders the flush action infallible. These tanks positively cannot get out of order.

The bowl which we furnish with this outfit is our vitreous earthenware syphon wash down bowl, white porcelain glazed. It is cast in one piece and absolutely guaranteed not to crack or craze. This bowl is cast complete with lugs for attaching seat, and the seat furnished with this outfit will be our regular golden Oak or imitation Mahogany seat complete with cover and nickel-plated post hinges. The outfit is furnished complete with nickel-plated supply pipe above the floor with iron pipe connection ready for attaching to iron pipe couplings. The flush pipe is connected with the bowl with a slip joint connection and nickel-plated brass elbow, which permits for adjustment in setting up the outfit. This closet is guaranteed strictly "A" grade and perfect.

THE LAVATORY which we furnish with this outfit will be our genuine white porcelain enameled cast iron one-piece lavatory complete with deep apron as shown in the illustration with nickel-plated soap drain, compression semi-low down basin cocks nickel-plated with china index handles, nickel-plated "S" trap to floor, nickel-plated supply pipe, chain and rubber stopper. This lavatory is guaranteed strictly "A" grade and perfect in every way.

Size of slab is 18x21 inches. Height of back, 18 inches; size of bowl, 10x14 inches. This lavatory presents an elegant appearance, and one of the most attractive designs we are able to furnish.

NOTE. We will furnish the above lavatory with supply pipe and trap to wall if you desire at no additional charge.

Special low price for this complete outfit as above described only **$37.50**

You will also note the illustration of nickel-plated trimmings shown in the above cut. We will be pleased to furnish these trimmings as follows:

Nickel-plated Toilet Paper Holder for holding paper on rolls **$0.75**

Hard Finish Oak Seat with nickel-plated adjustable clamps, rubber bound for hanging over edge of bath tub..... **$1.00**

A handsome nickel-plated brass Soap Cup, for hanging over the rim of the tub..... **$1.00**

Nickel-plated brass Towel Bar for bath tub, ½ inch in diameter, 30 inches long, with 2 nickel-plated brass posts holding same 3 inches from the wall..... **$1.00**

A second nickel-plated brass bar 24 inches long, like the above, for the lavatory..... **$0.90**

Special price for the above extra nickel-plated trimmings **$4.00**

If a 4½-foot tub is wanted, deduct $1.50; if a 5½-foot tub is wanted, add $1.50; if a 6-foot tub is wanted, add $3.00.

QUALITY. Remember we will absolutely guarantee these fixtures to be strictly "A" grade and perfect; free from defects or blemishes of any kind, and should this material open up otherwise than as represented, we stand ready to duplicate the order at once, or you can return shipment to us and we will refund your money in full.

IRON PIPE CONNECTIONS

We will be glad to furnish this outfit with iron pipe connections if so desired. We will furnish the lavatory with 1¼-inch iron pipe connection and also the bath tub we will furnish with 1½-inch iron pipe connection, or 1½-inch brass solder nipple wiped on the outlet of tub, so you can make ordinary iron pipe connection. With this connection wiped on the fixtures, you will have no further difficulty or wiping joints of any kind after the material reaches you, and any man who can cut and thread iron pipe and screw it together will be able to do this work. Iron waste pipe answers the purpose just as well in every way and by following our complete plans you will know just what size pipe to use and how to make the various connections. All you will need will be a set of Stocks and Dies, Pipe Vise and Pipe Wrench, which, of course, we are very glad to loan you free of charge, provided you place an order with us for the complete plumbing outfit.

$46.75 for Our Modern Bath-room Combination No. 5-A-3½

The Most Popular of All Our Outfits

Every fixture guaranteed strictly "A" grade, perfect and of the highest quality, both in workmanship and material. Here is certainly the best outfit we could offer you at any price.

The price at which we are offering this complete, modern outfit has never before been duplicated in the history of the plumbing business. This outfit is certainly a rare bargain; every fixture guaranteed as represented or money will be refunded.

THE BATH TUB furnished with this outfit is heavy solid cast-iron, 3-in. roll rim, genuine white porcelain enameled. Tub is 5 ft. in length. It is white porcelain enameled inside and over the roll rim; is graceful in shape and very comfortable tub. This tub presents a massive appearance and is fitted with the latest and most improved solid brass, heavily nickel-plated, and includes Fuller combination bath-cock for hot and cold water, nickel-plated supply pipes, nickel-plated connected waste and overflow, with chain and rubber stopper. The feet are heavy cast-iron of artistic cut and design.

THE CLOSET is one of the latest improved Syphon Jet patterns, made of absolutely non-absorbent vitreous china. The Syphon Jet bowl is the most perfect type closet bowl on the market, holding a very deep water seal, making absolute security against sewer gas. The seat and cover is attached directly to the bowl with nickel-plated post hinges. The tank is of polished oak and lined with heavy copper. It has the best flushing device and nickel-plated push button action so far devised.

This tank is arranged with a refilling arrangement, so that even though the bowl syphons out and should lose its water seal in flushing, when the tank is refilled a portion of the water will overflow and fill up the bowl to the full level of the water seal again.

The tank has nickel-plated supply pipe with floor flanges and nickel-plated 2 in. flush connection, closet floor screws and tank fastener.

THE LAVATORY consists of one solid cast-iron, genuine white porcelain enameled lavatory, all cast in one piece. The basin is oval 11x15 in. size with patent overflow. Is fitted with heavy brackets, nickel-plated air chamber supply pipes and nickel-plated Fuller basin cocks, nickel-plated "S" trap with waste to the floor, nickel-plated floor flanges, nickel-plated chain and rubber stopper.

NOTE. We will furnish the lavatory supply pipes and traps to wall when so specified without any additional charge.

Special price for this complete 3-piece Bath-room Combination, all guaranteed "A" grade and perfect, as above described, $46.75.

You will also note on the illustrations various nickel-plated trimmings which we quote as follows:

Nickel-plated Toilet Paper Holder, for holding paper on rolls..... **$0.75**
Hard finish Oak Seat with nickel-plated adjustable clamps, rubber bound for hanging over edge of bath-tub **1.00**
A handsome nickel-plated brass Soap Cup, for hanging over the rim of tub **1.00**
Nickel-plated brass Towel Bar for bath-tub, ½ in. in diameter, 30 in. long with 2 nickel-plated brass posts, holding same 3 in. from the wall **1.00**
A second nickel-plated brass Bar, 24 in. long, like the above, for the lavatory ..... **.90**
Special price for the above extra nickel-plated trimmings..... **4.00**
Making the complete outfit as shown in illustration and as listed above **52.50**
If a 4½ ft. tub is wanted, deduct $1.50.
If a 5½ ft. tub is wanted, add $1.50.
If a 6 ft. tub is wanted, add $3.00.

Our special system of iron pipe connections, makes it as simple as A B C. The time has come at last when plumbers cannot have everything their own way and dictate their own terms to anyone in the market for a plumbing system. We have come to the rescue.

Our modern system of iron pipe connections on our plumbing outfits, renders the services of a plumber absolutely unnecessary. Any ordinary mechanic who can cut and thread iron pipe and screw it together, will be able to install any of our fixtures without the least difficulty. All of the plumbing and lead work, wiping of joints, etc., being done right here at our plant before the fixtures are shipped, does away with all such work on the job, and for a very slight additional charge, we are able to furnish any fixtures in our catalog with iron pipe connections, so that the installation of the fixtures is a very simple matter indeed.

We protect you on safe delivery. Do not let the distance between us have any weight in your decision in the matter of where you place your order. You can rest assured that even though we are hundreds of miles away from you that your order will have exactly the same attention as if you were right here in our plant overseeing every move we make in the assembling of your material. Furthermore, we absolutely protect you on safe delivery, and you are taking absolutely no chances whatever in the matter of shipment. If this material does not arrive at your station in perfectly sound condition and up to representation in every way, or if the crating is broken, due to rough handling in shipment and carelessness on the part of the Railroad Company, all we ask is that you have the freight agent make proper notation on the freight expense bill, acknowledging the fact that the goods were damaged, to whatever extent it may be, and then mail us this expense bill, and immediately on its receipt we will duplicate the order at once and have the defective or damaged material returned to Chicago, and we will take the matter of claim up with the Railroad Company, and relieve you of all uneasiness or responsibility in the matter.

We fight these claims for our customers and take this entirely upon ourselves. If your shipment does not reach you in absolutely perfect condition, it is not up to you by any means—it is up to us, and we protect you to the limit. All responsibility is taken off your shoulders in matters of this kind. Therefore you can readily see that even though you are thousands of miles away from us, you will be able to do business just as conveniently as if we were located in your own town and you could walk right into our office.

We are very sorry that it is not possible for all of our customers to visit us and go through our plant, as we are only too glad to show such of them that have time to make the trip, and we know that if you could once pay us a visit here at our plant in Chicago, your continued patronage would be assured.

We realize that it is a pretty hard matter to work up sufficient confidence to place your order so far away from home and expect it to have the same attention as it would have if you placed it in your home town, but all we ask is a trial order, and we know that if you once favor us with a trial order, the mere distance between us will cut very little figure thereafter, when you once see what a great saving we can make you on this material. We know that you will become one of our regular customers and our continued pleasant business relations will be certain. All we ask is a chance.

Get our Heating Catalogue at once --- It is a valuable book.

$43.50 Buys our Complete 3-Piece Combination No. 5-A-2

High grade material and workmanship throughout. This outfit cannot be duplicated any place in the country at this price.

The BATH-TUB is a very graceful, genuine cast-iron, white porcelain enameled tub, with 3 in. roll rim; is made in one-piece, being white porcelain on the inside and over the roll rim, and is finished on the outside with a coat of iron filler paint.

The fittings are solid brass heavily nickel-plated, consisting of nickel-plated double Fuller bath-cock for hot and cold water, nickel-plated connected waste and overflow, nickel-plated supply pipes, chain and rubber stopper, floor flanges, etc. The tub is 5 ft. in length, and 30 in. in width from edge to edge of rim.

THE LAVATORY is solid cast-iron, countersunk rolled edge, white porcelain lavatory; size of slab 18x24 in.; has 11x15 in. patent overflow bowl with 8 in. high back: it is cast seamless in one piece; is fitted with fancy brackets, complete with nickel-plated Fuller basin cocks for hot and cold water, nickel-plated "S" trap from basin to floor, nickel-plated supply pipes to floor, nickel-plated overflow strainer, chain and rubber stopper. This lavatory is absolutely "A" grade, brand new and perfect in every way and free from defects of any kind.

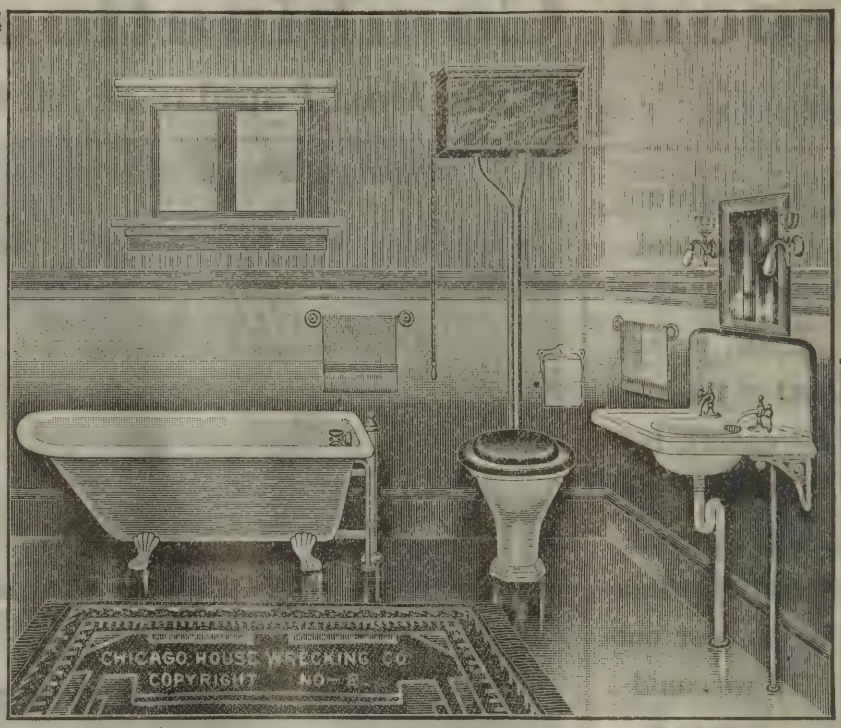
THE CLOSET for this outfit is furnished with a vitreous porcelain wash out bowl; with hardwood seat attached directly to the bowl with nickel-plated bolt attachment. The tank is copper lined and furnished in either natural, golden or antique oak, or imitation finish, (in ordering state your preference) and is fitted with the latest appliances, and complete in every way, including chain and pull; is furnished with nickel-plated flush and supply pipes, the flush pipe being connected to bowl with patent rubber elbow. The outfit includes floor screws, floor flanges, etc.

QUALITY. The outfit consists of all brand new material. The tub is class "B." The defects are very slight, scarcely noticeable, and do not mar the appearance or usefulness of tub.

Price as above described **$43.50.**

NOTE. We furnish the outfit with closet bowl changed to Syphon washout bowl for an additional price of $1.00.

We can also furnish this lavatory with fittings to the wall instead of floor for the same price. We will furnish lavatory for corner of room instead of straight wall as described for the same price.

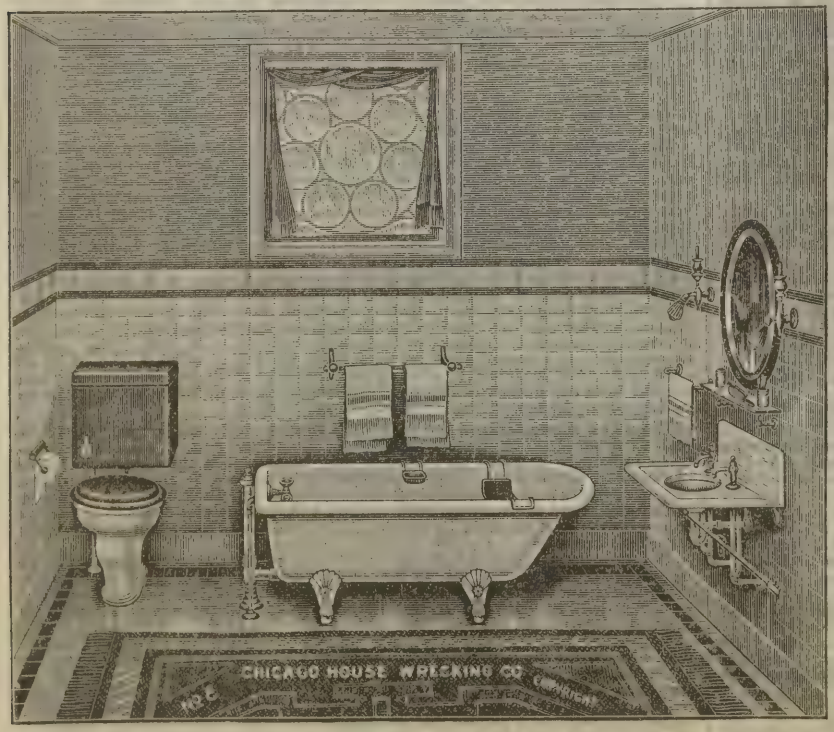


If 4 or 4½ ft. tub is wanted deduct $1.50. If 5½ ft. tub is wanted add $1.50. If 6 ft. tub is wanted add $3.00.

We can furnish Bath-tub with combined nickel-plated brass waste and overflow and bath trap to go above the floor at an additional price of $2.50.

We will also be pleased to furnish this outfit complete with iron pipe thread connections soldered on the outlets, so direct connection can be made to iron pipe threads, for an additional sum of $1.50.

$54.50 Buys this Complete High Grade, Modern, Up-to-date 3-piece Bath-room Outfit No. 5-A-3



This outfit represents absolute perfection. We could not positively give you higher quality fixtures if we tried. The fixtures furnished with this outfit are absolutely perfect and strictly "A" grade in every way.

THE BATH TUB is solid cast-iron, heavy 3 in. roll rim, genuine white porcelain enamel, 5 ft. in length, 30 in. wide over all from edge to edge of rim; is graceful in shape and is a very comfortable tub. It is fitted with double nickel-plated combination bath-cock for hot and cold water, nickel-plated supply pipes, standing "Roman" waste, nickel-plated with latest appliances. The feet are artistic in design, and the tub presents an elegant appearance.

THE CLOSET in this outfit is furnished with our latest improved Syphon Washdown Bowl, made of vitreous porcelain ware. It is furnished with hardwood seat and cover attached directly to bowl with nickel-plated clamps and fittings. The tank is of the low down pattern, round-cornered, copper-lined, with best grade ball cock and improved push button action flushing device, with nickel-plated supply pipe and flush connection, floor flange and rubber gasket.

THE LAVATORY is a large massive appearing countersunk, genuine pink Italian marble, with solid porcelain 14x17 oval basin, complete with nickel-plated brass rope pattern brackets, nickel-plated Fuller basin cocks, nickel-plated brass supply pipes with air chamber, nickel-plated brass trap, nickel-plated chain and rubber stopper, complete with clamps, screws and nickel-plated flanges.

Special price for this complete 3-piece Fixture, all material to be of the highest grade and perfect in every way **$54.50.**

You will also note in this illustration various trimmings can be furnished with this outfit. We are pleased to quote them as follows:

Nickel-plated Toilet Paper Holder for holding paper on rolls. Price..... **$0.75**

Hard finish Oak seat with nickel-plated adjustable clamps, rubber bound for hanging over edge of bath tub. Price..... **1.00**

A handsome nickel-plated brass Soap Cup for hanging over the rim of the bath tub. Price..... **1.00**

Nickel-plated brass Towel Bar for Bath Tub, ½ in. diameter, 30 in. long, with 2 nickel-plated brass posts, holding same 3 in. from the wall. Price..... **1.00**

A second nickel-plated brass bar, 24 in. long, like the above, for the lavatory. Price..... **.90**

Plate Glass Shelf, 24x5 in., with nickel-plate brass brackets. Price..... **4.00**

Special Price for everything listed **$59.50.** If 4 or 4½ ft. tub is wanted, deduct $1.50. If 5½ ft. tub is wanted, add $1.50. If 6 ft. tub is wanted, add $3.00.

Remember the above outfit represents absolutely the highest grade of fixtures that it is possible for us to turn out.

We will also be pleased to furnish the above fixtures with iron pipe connections, so that you can connect same up with ordinary iron pipe threads for an additional charge of $1.50.

$24.75 Only Buys Our Complete 3-Piece Bath-room Combination No. 5-A-O

THE BATH TUB is one of our brand new, strictly "A1" grade, steel enameled bath tubs complete with connected waste and overflow pipes, combination double bath-cock, ornamental cast iron combination frame and legs and highly finished hardwood rim. It is 5 ft. long, and is guaranteed to be practical, serviceable and durable in every way. The entire inside is carefully coated by a special enameling process which gives the tub a very durable finish, and it is painted with blue enamel on the outside. It is very neat appearing, and we guarantee satisfaction.

THE LAVATORY which we furnish with this outfit is one solid cast iron piece, white porcelain enameled. The enameling is genuine white porcelain and the lavatory is furnished complete with 2 compression faucets, nickel-plated adjustable "S" trap to floor and one pair of cast iron brackets.

THE CLOSET which we furnish with this outfit will be our sanitary, vitreous bowl high tank top supply outfit, furnished complete with nickel-plated flush pipe, supply pipe connection, nickel-plated chain and pull, and polished hardwood oak seat. The tank is copper lined, fitted with ball cock, and float. The mechanism is durable and guaranteed high grade in every way.

QUALITY. The material in this outfit is all absolutely brand new. The Bath-tub is strictly "A" grade and perfect, having no defects of any kind; every fitting in the outfit is brand new and perfect in every way. All nickel-plated fittings furnished with this outfit are all absolutely brand new and perfect. The closet bowl and the lavatory will have some very slight defects—they are known as class "B" fixtures, but the defects are so slight that they will not impair the usefulness or appearance of the outfit in the least.

Special price for this complete 3-piece outfit as above described $24.75.

SPECIAL NOTE. We can furnish the above outfit with iron pipe connections soldered on the outlets complete ready for connection to iron pipe for an additional sum of $1.50.

We will furnish this tub in 4½ ft. length at a reduction of $0.35.

If 5½ ft. tub is wanted add $0.60.

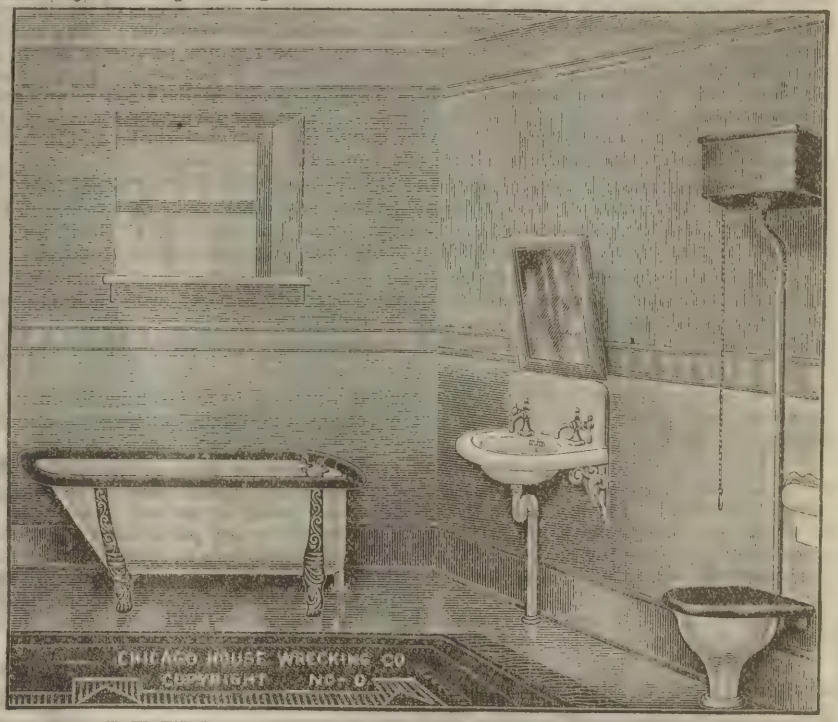
If 6 ft. tub is wanted add $1.60.

We furnish nickel-plated supply pipe for this bath-tub for an additional price of $1.50.

We will furnish the lavatory with trap to wall instead of floor for the same price.

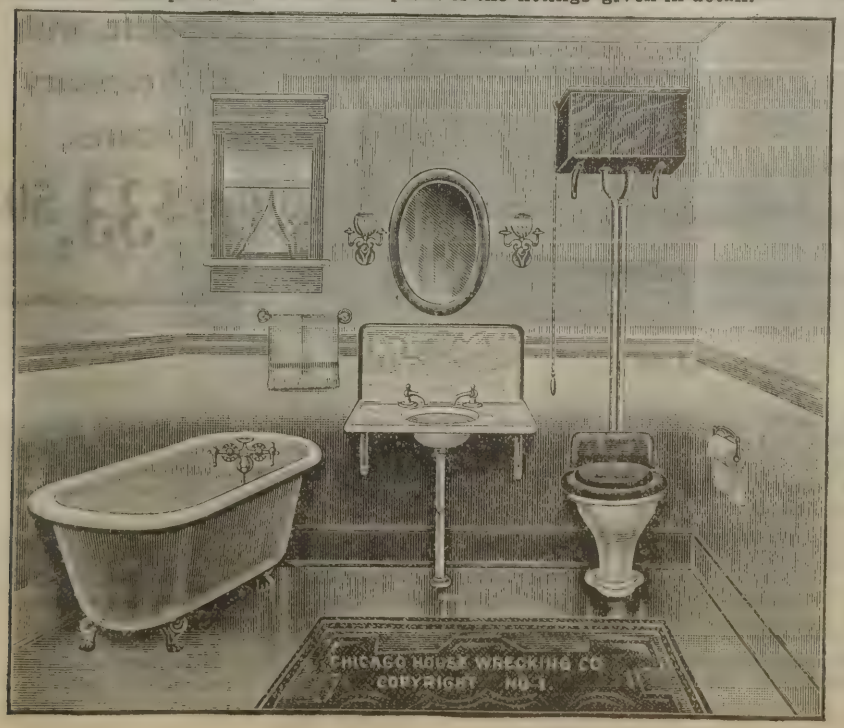
We will furnish nickel-plated supply pipe for lavatory for an additional price of $1.50.

Modern, sanitary and up-to-date in every way. This outfit is one of our greatest sellers, and as far as the practical results that you will get from this outfit are concerned, it will hold its own with any of the higher class outfits on the market at the present time. Every fixture is guaranteed as represented. Fixtures can be furnished with iron pipe connection if desired at a small additional cost, so that you can do your own plumbing.



Our Complete Outfit No. 5-A-1 With Solid Cast-Iron Bath-tub, Genuine White Porcelain Enameled, Only $37.50

This is the most durable and high grade complete 3-piece bath-room outfit ever offered at such a price. Note the description of the fittings given in detail.



The bath-tub is a regular cast-iron heavy 3 in. roll rim, genuine white porcelain enameled tub made in one solid piece, being enameled inside and over the roll rim. It is finished on the outside with a single coat of iron filler paint.

The fittings furnished with this tub are heavy brass nickel-plated, consisting of nickel-plated waste plug and overflow, nickel-plated Fuller double bath-cock for hot and cold water, nickel-plated chain and rubber stopper, nickel-plated floor flanges, etc. The tub is 4½ ft. long and is 30 in. wide over all from edge to edge of the rim.

THE CLOSET is furnished with a vitreous porcelain wash out closet bowl and hardwood seat for attachment against the wall. The tank is copper lined and finished in either Natural, Golden or Antique Oak or Imitation Mahogany (in ordering state your preference.) This outfit is fitted with the latest appliances and is complete in every way, including chain and pull, nickel-plated flush and supply pipe; the flush pipe being connected to the bowl with a patent rubber elbow, which gives lee way for adjustment and facilitates in setting up the closet. This outfit is fitted complete with nickel-plated floor screws, floor flanges, etc., and is complete in very way.

THE LAVATORY we furnish with this outfit will be of genuine pink Tennessee marble for straight wall, complete with back, slab and patent overflow bowl; nickel-plated compression basin cocks, nickel-plated "S" trap from basin to floor, nickel-plated twisted brackets, floor flanges, basin clamps, chain and rubber stopper.

QUALITY. The outfit consists of all new material. The tub is class "B." The defects are very slight, scarcely noticeable and do not mar the usefulness or appearance of the tub.

Special price for this 3-piece combination as above described $37.50.

NOTE. If 4 ft. tub is wanted same price.

If 5 ft. tub is wanted add $1.50.

If 5½ ft. tub is wanted add $3.00.

The bath tub can be furnished with nickel-plated connected waste and overflow instead of the common waste and overflow at an additional charge of $1.25.

For the convenience of our customers in installing the material, we will also be glad to furnish all fixtures, so they can connect directly to iron pipe threads, for an additional charge of $1.50.

Solid Porcelain Plumbing Ware

At Prices Below Manufacturers' Cost.

We purchased at a recent Receivers' sale the entire stock of one of the largest manufacturers of this material. These fixtures are something out of the ordinary; something that you don't see everywhere. This solid porcelain ware is invariably used in all the fashionable residences. The prices at which we are offering these fixtures positively do not represent one-third their actual cost of manufacture. Note the prices at which we are sacrificing these fixtures. If you are not posted on values on this class of material get in touch with your plumber; ask him what he can furnish you a solid porcelain bath tub or any other of these solid porcelain fixtures for; then compare his price with the prices listed in these pages. This will give you some sort of idea what bargains we are listing on this material. Remember, this is a limited job lot. Every one of these fixtures will be sold in a very short time, at the prices that we are now offering them. This entire stock must be closed out, hence the low prices.

These fixtures will certainly improve the appearance of any bathroom 100%. They present a massive and expensive appearance. Furthermore they are much more serviceable than any other make of fixtures on the market at the present time. You understand they are made of absolute solid porcelain. In some places they are fully 4" thick; heavy and massive in appearance and when you once get them set in your bathroom, you have something that you may well be proud of.

In localities where there is very strong mineral water that stains enameled iron ware and that spoils the glossy surface in a very short time, this solid porcelain ware will prove absolutely impervious to such damage.

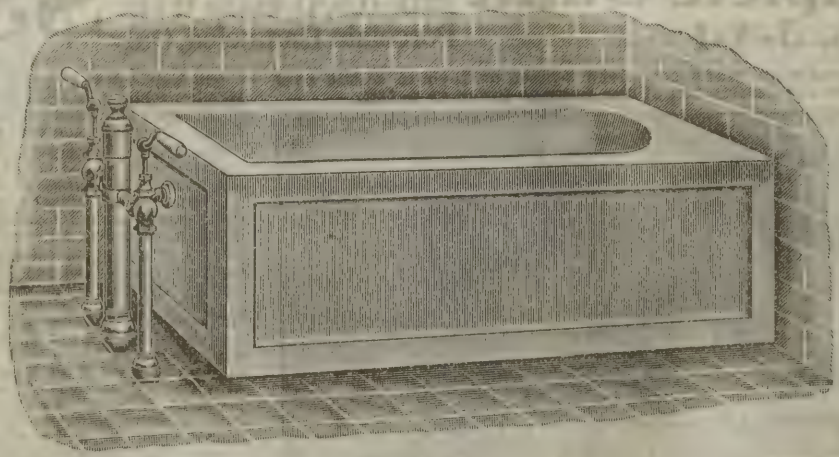
The prices that we are offering these fixtures positively do not amount to much more than the cost of good enameled iron fixtures of the same kind. In fact, the prices that we are offering these fixtures are less than your plumber would charge you for a similar fixture in the less expensive enameled iron quality.

These fixtures are just the thing for you if you want to fit out a bathroom or toilet room on an elaborate scale and at the same time at a very low price. You certainly will never again be offered such an exceptional bargain in this class of plumbing fixtures as we are offering you here.

In quality these fixtures are second grade. They are more or less slightly damaged. However, there are many of these tubs on which the defects are scarcely noticeable. Probably some imperfection in the baking process which these fixtures are put through or something of that kind. In most cases, the defects could hardly be noticed unless your attention was directly called to them. We guarantee these tubs just as represented and if you are interested in any particular style of tub or any of the other fixtures listed, drop us a line at once. We will go over our entire stock and pick out a bath tub or whatever the fixture may be that we think will answer your requirements and will submit you an itemized description covering every point by return mail, stating just what the defects are and their extent, etc. Then you can send your order in. If you are not satisfied that the fixture is full value for your money and if it does not prove to be up to representation in every way, remember, that your money will be cheerfully refunded and you can ship the fixture back to us at our expense. Nothing could be fairer than this.

We know positively that these fixtures are a rare bargain at the prices quoted and every one of them is worth double of what we are asking for them. If interested in this solid porcelain ware, do not fail to write us further for description, etc., and we can surely find some thing that will best suit your requirements.

Massive in Appearance; Approximately 5 feet long.



Complete, with All Necessary Fixtures, Only $33.50

No. 5-A-662.

Style No. 100 solid porcelain pedestal bath tub, exactly similar to tub shown in this cut, except that it is designed to set in a recess in the wall. It is glazed the entire inside of the tub, back and one side. The balance, including both ends and side that is intended to go toward the wall are simply unfinished rough porcelain. If you have any special design of bathroom where you can locate the tub in a recess in the wall; or, if you are at the present time contemplating building a house, here is your opportunity. A solid porcelain bath tub, complete with the necessary fittings, only $33.50.

Above tubs are approximately five feet long.

It would be well to order one at once and have it shipped. You can put it away until you have the building far enough along so that you can set it in place. Remember, these tubs are designed to set in a recess in the wall and when set in this position, they certainly make an elegant appearance.

In quality, the tubs are very slightly defective. We will be pleased to pick out one of these tubs for you and submit you a complete detailed description of what and where the defects are. Also, complete blue print plan showing how it can be set in a recess in your bathroom with all dimensions fully given, on request. If interested, do not fail to write us. Special price on this tub, complete as described, only.....$33.50

Sacrifice Sale Solid Porcelain Plumbing Fixtures, Slightly Damaged

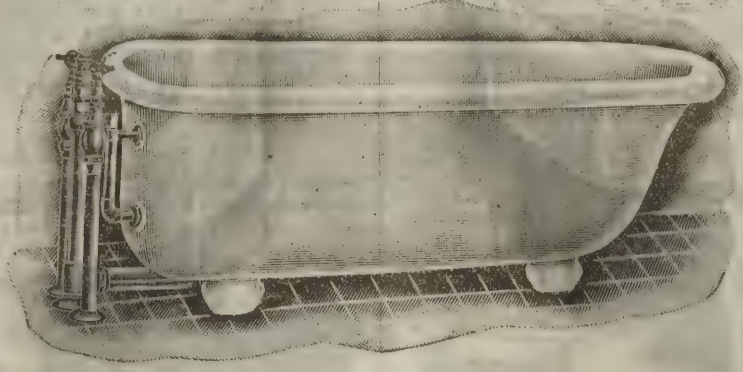
No. 5-A-663. Genuine solid porcelain bath tub, designed to stand on massive solid porcelain feet, as shown in illustration. These tubs are white glazed inside to the extent of about 6" over the rim. The balance of the tub we can finish up for you in a white filter enamel, giving it five or six good hard coats, allowing each to dry to a crisp hardness before the next coat is applied. This process giving an enamel finish which can hardly be told from genuine white porcelain enamel. One of these tubs fitted in this way will make one of the finest tubs we could select for your bathroom. These tubs easily sell from $100 to $125. This is positively the price that is demanded by the regular plumbing trade on this class of bath tubs at the present time. We have a limited number of these tubs left, and while they last we will sacrifice them at the exceptionally low price of ..... **$35.50** complete with the necessary trimmings.

In quality these tubs are "B" grade. They have some very slight defects here and there, which will certainly not interfere in the least with their general appearance.

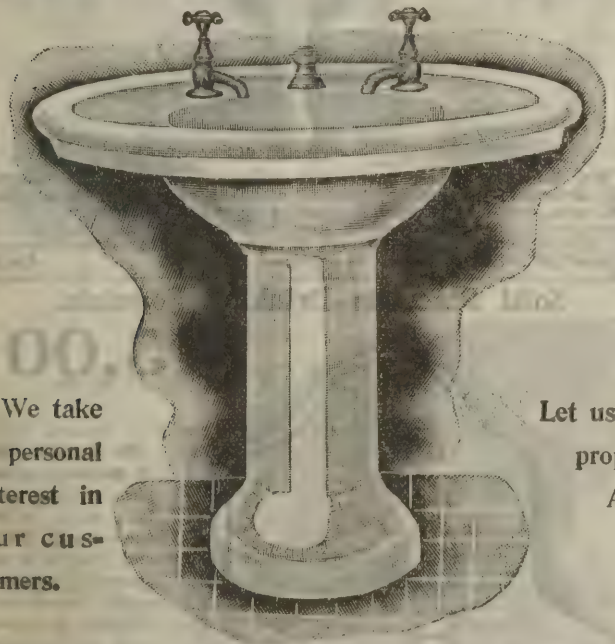
The impression of massiveness and the elaborate appearance which they give when set in a bathroom will certainly well pay for their slight additional cost over the ordinary cast iron tub. One of these tubs located in your bathroom will positively improve its appearance 100 per cent. You are getting this tub at one-quarter its actual value, simply on account of the fact that it has some very slight defect. We do all we can to repair the defective places, and in most cases they are scarcely noticeable.

We sell these tubs just as we do all the rest of our solid porcelain fixtures; that is, when you send us in an inquiry, we go over our stock at once, pick out some special tub that we think will be especially adapted for your requirements, and we submit you an itemized description of just exactly what and where the defects are. Then if the description pleases you, you can send in your order and if on arrival the tub is not absolutely up to representation in every way, remember that you have the absolute privilege to return it to us and we will refund your money in full. We do not expect you to keep anything that is not up to representation in every way. Remember, we want to move this stock, hence the low price. This lot of material will not be long in our possession at these prices. Send in your order at once. These tubs are all approximately 5 feet long.

This Massive and Elegant Porcelain Tub Complete with Trimmings only $35.50



Genuine Porcelain Pedestal Lavatories, Complete with trimmings $25.00



No. 5-A-664. Pedestal style, oval style, oval top, 24x33" with 14 x17" flat back oval basin. These lavatories are moulded in two piece. The oval slab containing the basin and a separate pedestal. They are white glazed inside and outside. The pedestal is white glazed all over. The pedestal is of the plain Ionic design.

We furnish this lavatory complete with two compression nickel plated semi-low-down basin cocks with china index handle, marked respectively hot and cold with ideal lifting waste. We furnish the outfit complete with nickel-plated air chamber supply pipes to wall and nickel-plated vented flask trap also to wall.

In quality this lavatory is "B" grade, has some very slight defects. We have a lot of about 50 of these left and at the prices which we are offering them, they certainly will not remain long in our possession. Some of them are very slightly damaged. We can pick out an exceptionally good one for you, if you place your order early. You can write us if interested and we will submit you complete detailed description. If you are satisfied with this description, you can order and we will guarantee satisfaction. We will sacrifice these lavatories while they last at the exceptionally low price of..... **$25.00**. Now is the time to order.

Solid Porcelain Lavatories, Single Leg $15.00

No. 5-A-666. Genuine solid porcelain lavatory designed to be placed along side of wall without back. These lavatories are fitted with one leg as illustrated and with wall connections. They are made with patent overflow basin, trimmed with nickel-plated semi-low-down basin cocks, china index handles, nickel-plated 1¼" half "S" trap with waste to wall and nickel-plated supply pipes to wall.

In quality, these lavatories are class "B". We have a limited number left and will be pleased to submit you detailed description on request. We will make a special selection for you.

While they last, we will sacrifice them at the following prices:

Size 22x24"	$15.00
Size 26x24"	17.50
Size 30x27"	20.00

We take a personal interest in our customers.

Let us make you a complete proposition on a modern Air Pressure Water Supply System

We protect you on safe delivery.

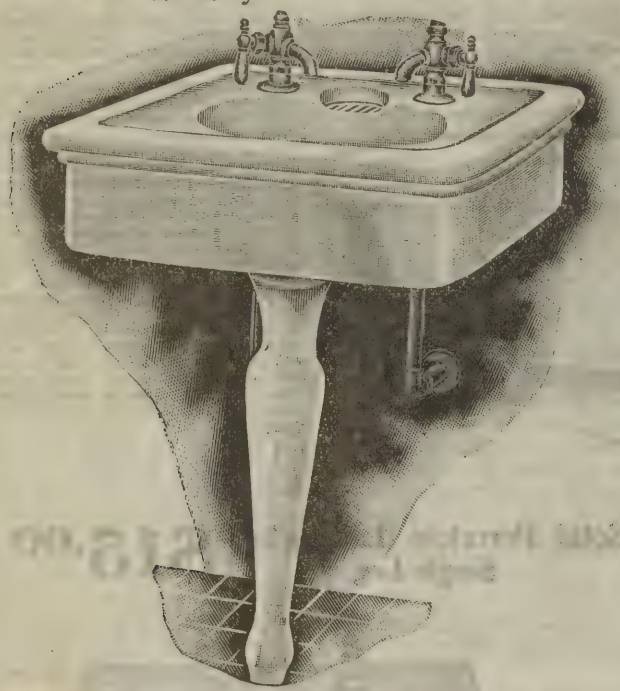
Don't Fail to Write at Once for Our Complete Heating Catalogue. It's Valuable.

SOLID PORCELAIN LAVATORIES

This lot of lavatories is some more of the job lot referred to on the preceding pages. All of these fixtures it is to be understood are class "B." They have some very slight defects which are very carefully repaired by us in most cases so that they are scarcely noticeable. The fixtures you understand are absolutely brand new, having never seen any service whatever.

The best way to order is to write us about any particular one of these lavatories that pleases you most and let us go over the entire stock. We will be only too glad to pick out one of the best for you and we will lay it aside, submit you a complete itemized description of just what condition this lavatory is in, what and where the defects are, and if you think the lavatory will answer your requirements, you can send us in your order and we will send it to you, subject to inspection on arrival. If it is not up to representation in every way, remember you have the absolute privilege to return it to us at our expense and we will refund your money. We are anxious to move this stock, hence the low prices.

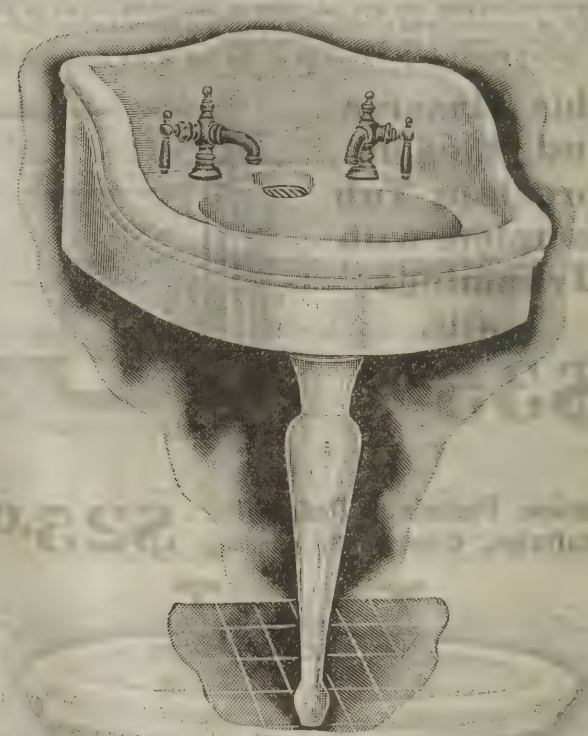
Square Roll Rim Genuine Porcelain Lavatory. $14.50



No. 5-A-668. Genuine white porcelain solid lavatory on square style, made to set against wall, with deep apron and without back, as shown in illustration. This lavatory is 24″ wide and 22″ deep. It is fitted with one solid porcelain leg, and all connections are made to wall. The fittings furnished with this outfit include nickel-plated Fuller basin cocks, nickel-plated supply pipes to wall, nickel-plated half "S" trap with waste to wall, with wall plates, etc.

These lavatories are "B" grade in quality. Price each, as described, while they last, only..... **$14.50**

Round Front, High Back, Solid Porcelain Lavatory. $14.50



No. 5-A-669. These lavatories are made with patent overflow basin, as shown in illustration, fitted out complete with nickel-plated Fuller basin cocks, one solid porcelain supporting leg to floor, nickel-plated supply pipes to wall, nickel-plated half "S" trap with waste to wall. Size of lavatory, 25″ long and 23″ deep and back 8″ high. In quality these lavatories are class "B". Price, complete as described, only..... **$14.50**

Solid Porcelain Lavatory, Solid Porcelain High Back and Solid Porcelain Legs. $16.50

No. 5-A-670. This lavatory is made with Roman Lifting Waste and overflow, fitted with two solid porcelain legs and all nickel-plated connections to wall, including nickel-plated compression semi-low-down basin cocks, nickel-plated supply pipes to nickel-plated lifting waste with china index. Basin Cocks are fitted with china indexes marked respectively, hot and cold, and the outfit is furnished also with nickel-plated "P" trap to wall. Comes in two sizes. In quality these lavatories are "B" grade.

Size 24″ x 22″. Price only..... **$16.50**

Size 27″ x 24″. Price only..... **$18.50**

Solid Porcelain Drinking Fountain. $15.00

No. 5-A-671. Solid porcelain one-piece drinking fountain, made to set against wall. Heavy and massive in appearance, equipped with ornamental brackets, as shown, and with nickel-plated self-closing faucet, nickel-plated outlet fitting and nickel-plated 1¼″ half "S" trap with waste to wall.

In quality this drinking fountain is class "B"; some very slight defect.

Price, complete, as described, while they last only..... **$15.00**

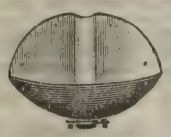
SINKS AND FITTINGS

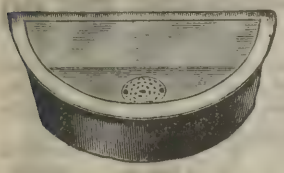
HALF CIRCLE URINALS, 88c

No. 5-A-609. Porcelain enameled iron half circle Urinal, fitted with lead waste pipe for straight wall.
No. 07 with the back 12 in., weight 11 lbs. Price.$0.88
No. 08 with the back 15 in., weight 16 lbs. Price. 1.20

CORNER URINALS, 88c

No. 5-A-610. Porcelain enameled iron corner Urinal, fitted with lead pipe.
No. 04 with the back 9 in., weight 6½ lbs. Price $0.88
No. 05 with the back 12 in., weight 8 lbs. Price 1.20
We can furnish the above with connections threaded for iron pipe at an additional cost of.....25c.





HALF CIRCLE SINKS, 74c

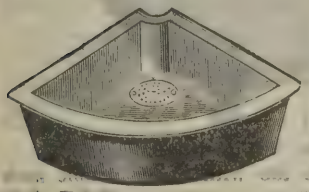
No. 5-A-611. Flat Rim cast iron half circle Sink, furnished with nickel-plated strainer, trap coupling and bolts. Length of back 24 in., width 14 in.
Price painted....74c. Enameled...$2.19

SLOP HOPPERS AND BELL TRAPS, ONLY 82c

No. 5-A-612. Enameled iron or painted iron Slop Hopper

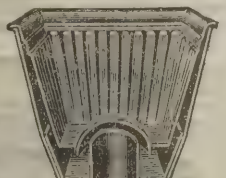
No. 12, size 12x12. Price painted	$	.82
No. 12, size 12x12. Price enameled		1.69
No. 14, size 14x14. Price painted		1.07
No. 14, size 14x14. Price enameled		2.19
No. 16, size 16x16. Price painted		1.19
No. 16, size 16x16. Price enameled		2.50

CORNER SINKS, 69c



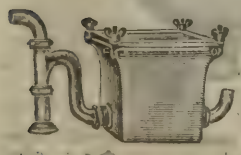
No. 5-A-613. Cast iron Flat Rim enameled iron or painted iron corner Sink, 6 in. deep, with nickel-plated strainer, bolts and Trap Collar. Length of sides 17 in. Radius of circle 25 in.
Price painted.....$0.69
Price enameled..... 2.19
We can furnish the above sink with iron pipe connection at an additional charge of.....$0.25

SLOP HOPPERS $2.50



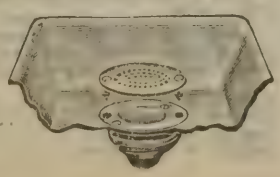
No. 5-A-614. Painted or enameled square slop hopper, with cast iron removable strainer and bell trap. Price each.....$2.50

ENAMELED GREASE TRAPS, POLISHED BRASS TRIMMINGS, COMPLETE, $5.98



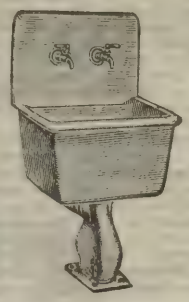
No. 5-A-619. Enameled iron Grease trap for open connection with removable cover, complete with polished brass trimmings, size 9x9.
Price.....$5.98
If nickel-plated brass trimmings, are desired. Price will be.....$6.29
If iron pipe connections are desired on the fittings furnished for above trap, additional cost will be.....$0.75

IMPROVED SINK CONNECTIONS, 25c



No. 5-A-617. Modern sink connections complete, including nickel-plated strainer, bolts and trap coupling. Price for set complete.....25c.

SLOP SINKS



Genuine white porcelain enameled roll rim slop sink with trap standard and high back, only $9.85

ROLL RIM SLOP SINKS

No. 5-A-615. Genuine white porcelain enameled cast iron roll rim slop sink on trap standard with cleanout and nickel-plated brass vent, roll rim back with concealed galvanized iron air chamber and two nickel-plated Fuller flanged faucets.

	Price
Size 16x20x12, enameled inside only	$ 9.85
Size 16x20x12, enameled inside and out	12.25
Size 18x22x12, enameled inside only	11.22
Size 18x22x12, enameled inside and out	13.92
Size 20x24x12, enameled inside only	12.07

FLAT RIM ENAMELED SLOP SINKS, ONLY $1.35

No. K 59. Cast iron flat rim Slop Sink, on trap standard with cleanout and brass vent connection.
Sink as above with 2 brass bibbs.

Size	Painted	Enameled
16x16x10	$5.25	$7.00
16x20x12	5.75	7.50
20x24x12	6.75	

No. K59. Slop Sink only, without standard or bibbs.

Size	Painted	Enameled
16x16x10	$1.35	$3.75
14x20x12	1.75	4.25
16x20x12	2.00	5.00
20x24x12	2.50	6.00

No. 323. Enameled Iron Stop Sink.

PAINTED SLOP SINKS, ONLY $1.00

No. 323. 12x12x6. Combined Slop Sink and bell trap, strainer, etc. Each.....$1.00
20x24x12 Ditto, each..... 2.25
15x15x10½ " " 1.50
14x20x12 " " 1.60
16x16x10 " " 1.25
16x16x9 " " 1.25

SINK STRAINERS, 9c

5-A-620. Sink Strainers, nickel-plated. Price, each.$0.09

SINK PLUGS, 25c

No. 5-A-621. Combination sink plugs as illustrated, complete with chain and rubber stopper. Price....$0.25

SINK BOLTS, 1c

No. 5-A-622. Sink Bolts. Price, per pair.....1c

SINK TRAP COUPLINGS, 10c

No. 5-A-623. Cast iron lead trap sink coupling. Price.....$0.10
Same as above for iron pipe connection. Price.....$0.25

BEDFORD URINALS, ONLY $2.50

Brand New, Second Grade Bedfordshire Urinals. We can furnish with or without fitting.
Price, Urinal only, no fittings $2.50
Price, with Urinal Cock and Trap as shown in cut.... 4.50
¼ circle Corner Urinals same price.

ENAMELED IRON URINALS, $9.00

No. U44. Cast iron roll rim Urinal, with roll rim back, all white porcelain enameled, brass bee-hive strainer and tailpiece, perforated brass flush pipe with loose key stop.

24 inches long	Price,	$ 9.00
30 inches long	Price,	9.90
36 inches long	Price,	11.40
42 inches long	Price,	13.50
48 inches long	Price,	15.00
60 inches long	Price,	20.40
72 inches long	Price,	24.75

HEAVY CAST IRON ROLL RIM BATH TUBS.

BRAND NEW.

Note that we can supply both "A" and "B" grade. The "A" grade tubs listed are guaranteed absolutely perfect in every way. All these tubs priced on these pages are guaranteed absolutely brand new, having never seen any service whatever. The "B" grade tubs are some that have been very slightly damaged in shipment and on which you will note we are able to make you an exceptionally low price. Remember, the "A" grade tubs are guaranteed strictly perfect in every way and as high-grade tubs as is on the market at the present time.

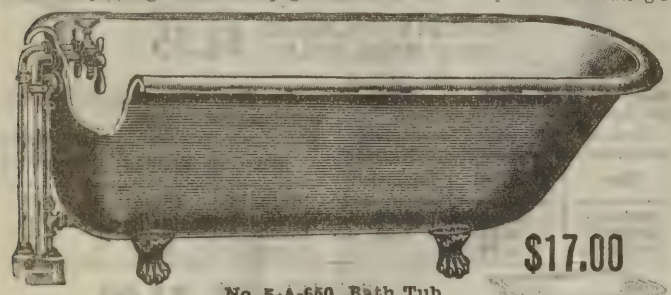
Why not put one of these modern bath tubs in your home? It is a very simple matter to make all connections with our complete instructions. Note that we can supply any of these tubs with iron pipe connections soldered on the outlets at a slight additional charge, which will simplify the matter of making the connections to a very considerable extent. It is the simplest thing in the world to put in a range boiler and a few feet of piping, etc., to make the connections. Connect it up with your kitchen stove and you can pipe the hot water to both your kitchen sink and bath tub and have a plentiful supply of hot water at all times.

Also, note our complete gas heaters listed separately in this book. Put one of these heaters in, in connection with your range boiler. This will supply all the hot water for bath purposes and you can have hot and cold water to the tub at all times. We instruct you fully how to do this work and we give you every possible assistance. There is certainly no reasonable excuse for any one to be without a modern bathroom equipment in their home, considering the very low prices at which we are able to furnish this material and the special inducements offered for getting the material installed.

The tubs listed on this page are all exactly the same tubs except as to quality; there being of course a difference between the "A" and "B" grade quality, as has already been explained. As to the numbers of the tubs, the only difference is in the amount of fittings that are furnished with them. You will note the different prices as are given, which prices are for exactly the same tub in each case, except that one has more fittings than another.

In ordering, be sure to state which quality you want, "A," or "B" grade. We guarantee these tubs to be exactly up to representation in every way and you are taking no chances whatever in ordering. Remember, your money will be refunded if not satisfactory.

The prices given on this page include the tub complete with crating ready for shipment. We make no extra charge for crating.



$17.00

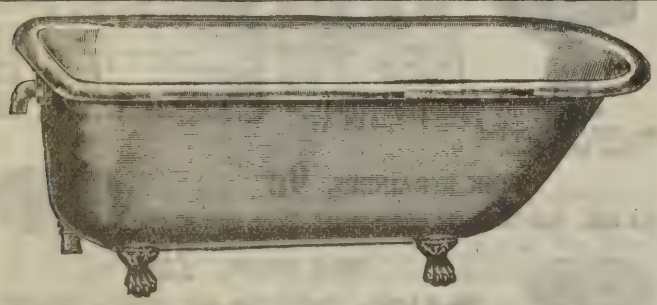
No. 5-A-650, Bath Tub.

No. 5-A-650. Complete bathtub, strictly "A" grade with all nickel plated trimmings above the floor and guaranteed perfect. Price, only $17.00

3-inch roll rim, white enameled, trimmed complete with nickel plated No. 4½ Fuller double bath cock, nickel plated connected waste and overflow, rubber stopper, nickel plated chain and two nickel plated brass supply pipes.

	B Grade	A Grade
Length, 4½ feet, price	$15.00	$17.00
Length, 5 feet, price	16.00	18.00
Length, 5½ feet, price	18.00	20.00
Length, 6 feet, price	20.00	22.00

No. 5-A-651. We can furnish above tubs with iron pipe connections soldered on outlet, at an additional cost of 50c to above prices.



No. 5-A-652. Strictly "A" Grade tub with nickel plated overflow strainer on outlet, waste plug and rubber stopper. Price, only $12.00

STYLE No. 5-A-652. PRICE FOR TUBS WITHOUT ANY FITTINGS.

	B Grade	A Grade
Length, 4½ feet, price	$10.00	$12.00
Length, 5 feet, price	10.50	13.50
Length, 5½ feet, price	12.00	15.00
Length, 6 feet, price	13.50	16.50

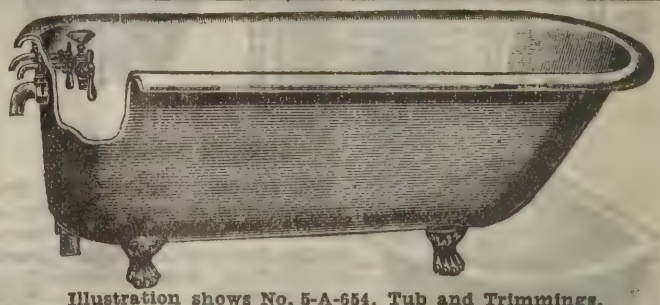
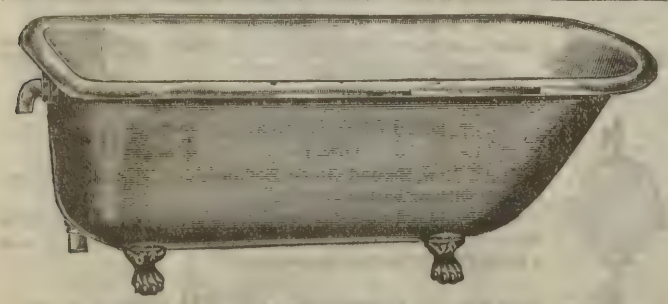


Illustration shows No. 5-A-654. Tub and Trimmings.

No. 5-A-654. Strictly "A" grade tub with Fuller double bath cock, waste plug and overflow strainer. Price, only $15.00

Bath Tub consists of 3-inch roll rim enameled tub with trimmings as shown in No. 33, consisting of N. P. No. 4½ Fuller double bath cock, nickel plated overflow strainer, nickel plated chain, rubber stopper and brass waste plug.

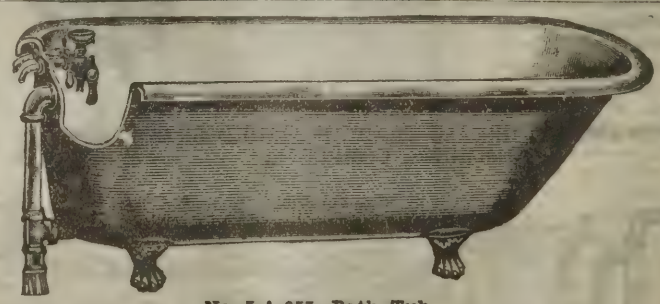
	B Grade	A Grade
Length, 4½ feet, price	$13.00	$15.00
Length, 5 feet, price	13.50	16.50
Length, 5½ feet, price	15.00	18.00
Length, 6 feet, price	16.50	19.50



No. 5-A-653. "A" grade tub with compression bath cock waste and overflow fittings. Price, only $14.75

No. 5-A-653. Bath tub consists of 3-inch roll rim enameled tub as above, with N. A. compression double bath cock, nickel plated overflow strainer, nickel plated chain, rubber stopper and brass waste plug

	B Grade	A Grade
Length, 4½ feet, price	$12.75	$14.75
Length, 5 feet, price	13.25	16.25
Length, 5½ feet, price	16.75	17.75
Length, 6 feet, price	18.25	19.25



No. 5-A-655. Bath Tub.

No. 5-A-655. Strictly "A" grade cast iron enameled tub with connected waste and overflow and Fuller bath cock. Price, only $16.00

3-inch roll rim, white enameled, trimmed complete with nickel plated No. 4½ Fuller double bath cock, nickel plated connected waste and overflow, rubber stopper, nickel plated chain.

	B Grade	A Grade
Length, 4½ feet, price	$14.00	$16.00
Length, 5 feet, price	14.50	17.50
Length, 5½ feet, price	16.00	19.00
Length, 6 feet, price	17.50	20.50

Genuine White Porcelain Enameled Cast Iron Bath Tubs
High Grade

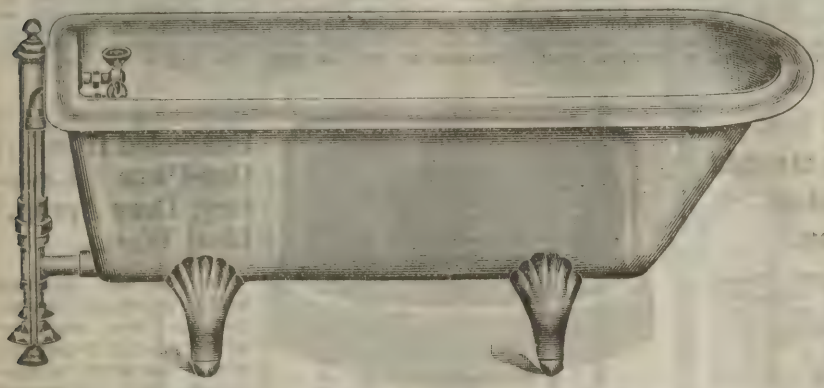
We are offering you a strictly perfect cast iron, seamless, white procelain enameled bath tub, guaranteed in every way. Our guarantee means that should the enameling in any way chip or become defective within one year after its purchase that we will furnish another tub to replace it, provided tub is returned to us by freight and the dated guaranteed label attached to tub to be returned with the tub. We do not mean to replace the fittings with this after they have been used.

Our guarantee only includes replacing of the tub itself.

These tubs have a 3-inch roll rim, fancy designed cast iron feet, are enameled on the inside and over the roll rim, and painted with one coat of iron filler on the outside.

We will finish these tubs on the outside with a zinc white finish, using five coats of paint, the first coat being rubbed off with sand paper and pumice stone, the finish being perfect and smooth, at an additional price of **$9.50.** Tubs when so finished have to be boxed; they cannot be shipped crated. Our price for the additional finish includes the boxing and delivery on board cars.

These tubs are furnished complete with the following fittings: Nickel plated Fuller double bath cocks, nickel plated standing Roman waste, nickel plated brass supply pipes, nickel plated floor flanges, etc., all the trimming being high grade.



No. 5-A-656.

Price includes tub and trimmings.

Length, ft.	
4	$28.00
4½	28.00
5	30.00
5½	33.00
6	36.50

No. 5-A-657.

Just the same as above but without our guaranteed label, at the following prices:

Length, ft.	
4	$26.00
4½	26.00
5	28.00
5½	31.00
6	34.50

We can furnish above Tub with iron pipe connection wiped on outlet at an additional cost of 50 cents to the above prices.

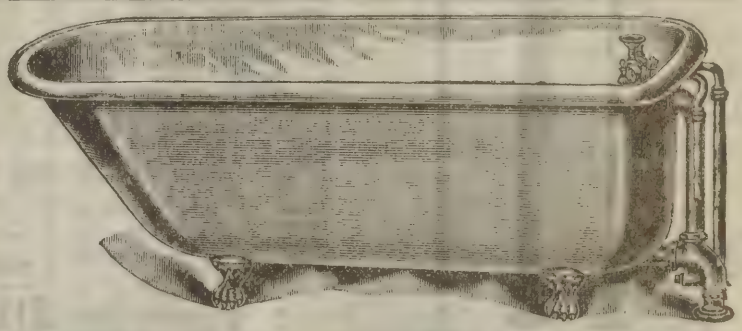
No. 5-A-658.

Three inch roll rim procelain enameled iron tub, trimmed with nickel-plated No. 4½ Fuller double bath cock; nickel-plated off-set supply pipes, and combined nickel-plated, connected waste and overflow and bath trap; nickel-plated chain and rubber stopper. The trap on the connected waste and overflow is of heavy cast brass, with a clean-out plug, and the whole is heavily nickel-plated.

Cast iron roll-rim Bath Tub with combination trap, strictly "A" grade, only $22.00

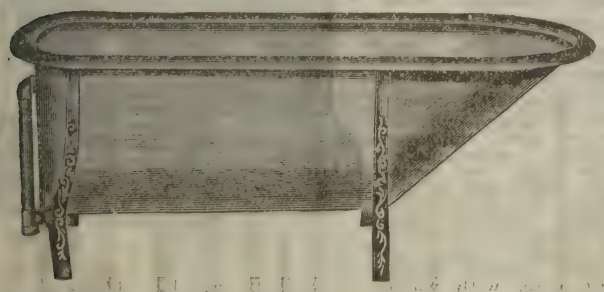
4 foot tub	$22.00	5½ foot tub	25.50
4½ foot tub	22.00	6 foot tub	28.50
5 foot tub	23.00		

1¼ iron pipe thread tail piece on outlet of trap, extra, **$0.50.**



Steel Bath Tubs.

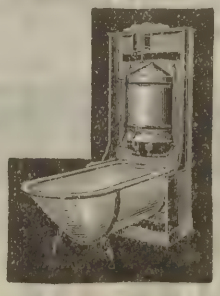
Steel Bath Tub, No. 5-A-659.



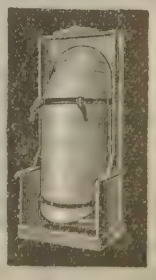
This is a strictly new guaranteed perfect sheet steel Bath Tub, made of one thickness of galvanized steel. It is strong and durable and just the tub to make comfortable the home of those in moderate circumstances. The tub has 2 soldered seams and these seams are supported by iron mountings extending up to the rim. They are furnished with improved legs made with detachable feet. The feet are taken off for crating and cannot be broken in transit. The tubs are furnished with nickel plated connected waste and overflow, with rubber stopper and these are removed and packed inside for shipping. These tubs are fitted with heavy oak wood rims, made from 1½ inch stock, carefully filled, finished, rubbed and varnished. All tubs white enameled inside and light blue enameled outside. The legs and iron mountings are neatly bronzed. Width over rims 27½ inches, width inside 22½ inches, height over all set up 22 inches, depth inside 18 inches.

Size 4 or 4½ feet long	$5.50
Size 5 feet long	6.00
Size 5½ feet long	6.25
Size 6 feet long	7.00

Folding Bath Tubs.



PORTABLE, COMPACT, ALWAYS READY.



OPEN. **CLOSED.**

These illustrations show the newest and best Folding Bath, with iron heather. These tubs are portable and not fastened to the wall; they operate same as a folding bed. When closed can be stored in a space 2½x2½x5 feet 8 inches. We have no lever or wooden wheels in our device to break or get out of order. Our folding device is the simplest, strongest and most complete device known.

The Tub is made of galvanized steel, white enameled inside and blue outside. The enamel is baked on. The Tub is reinforced with iron bands, terminating in the feet. Has a polished wood rim, and an outlet that can be easily attached to an iron pipe or the water can be conducted away through a rubber hose.

Ordinarily the heater is furnished for gasoline, but we will furnish heater for natural or manufactured gas or for oil. In ordering state kind of burner wanted.

No. 5-A-660—Price of Complete Folding Bath and Heater	$21.85
No. 5-A-661—Price of Folding Bath without Heater	13.00

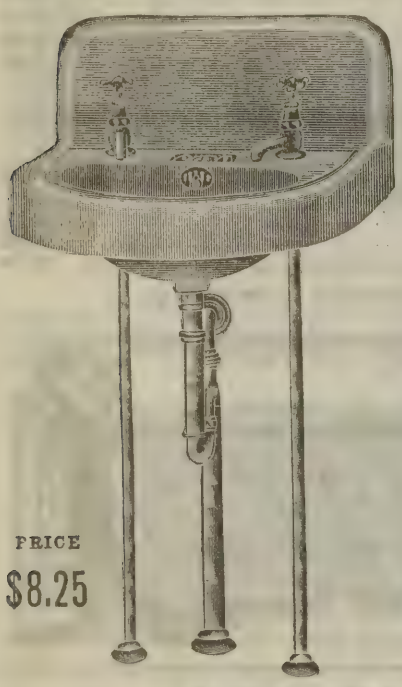
These Folding Tubs are usually shipped from our factory in Michigan.

White Enameled Lavatories

A complete assortment to select from. Shapes, sizes and designs to suit every taste and requirement. Think it over. Would not one of these lavatories, properly placed, prove to be a wonderful convenience in your home and save an endless amount of running up and down stairs, as is the case when you have only one lavatory, in your bath-room on the second floor? Put in one of these modern lavatories on the first floor. If your house is already built, you can very easily, by a little careful planning, find some nook or corner that would be specially adapted to accomodate a lavatory of this kind. Under the stairway in the front reception hall, or in the hall leading off the kitchen in the rear, it would be especially desirable, where the members of the family could rinse their hands and brush up coming in or going out. It would save the time and trouble of running up and down the stairs.

If you are planning a new home, do not overlook this feature in laying out your plans. It is positively a necessity. It is not a difficult matter to put in one of these lavatories. One afternoon's work will do the entire job. We can furnish you all the piping, fittings, connections, etc. You can connect the hot and cold water up right from your kitchen range boiler without any trouble whatever. We instruct you fully.

No farm house should be without a wash-room fitted out with a number of these lavatories. Note the very low prices at which we are offering them. Don't delay a moment. Look over these pages carefully. Select a lavatory or a number of them, as you may require, and send in your order at once. You can install them yourself, or get some handy mechanic to do the work, and by following our complete plans and instructions and also taking advantage of our iron pipe connection system, you will have no trouble whatever in getting these lavatories installed without a hitch. Remember we can wipe the joints for you here at our plant. No skilled plumbing work required.

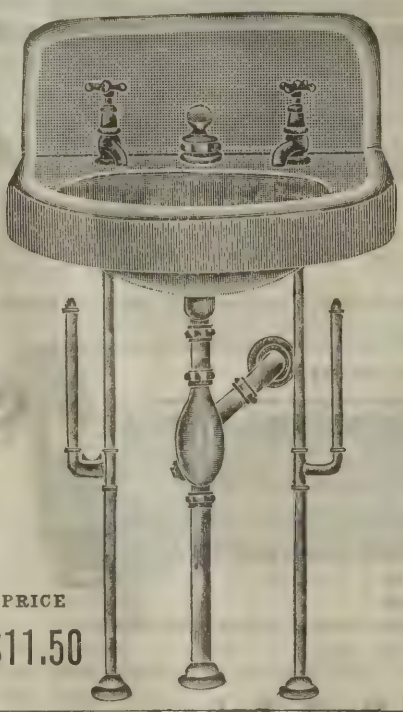


PRICE
$8.25

Enameled Iron One-Piece Straight Wall Lavatory, Deep Apron.

No. 5 A. 586. Enameled iron, one-piece, straight to wall lavatory, with deep half-circle apron. This lavatory has a D pattern bowl equipped with sanitary nickel-plated brass soap tray, improved brackets, nickel-plated waste plug, chain and rubber stopper, low down compression faucets with china tops marked "Hot" and "Cold", nickel-plated supply pipes and nickel-plated adjustable S trap with waste to floor and vent to wall. Size of slab 18"x21", height of back 8", size of bowl 10"x14". Price of this complete lavatory as above described, ready to set up, only **$9.90**

Price for above lavatory as described, in B grade quality, very slight defect in the enamel, only..... **$8.25**



PRICE
$11.50

Enameled Iron One-Piece Lavatory, Deep Apron, Ideal Waste.

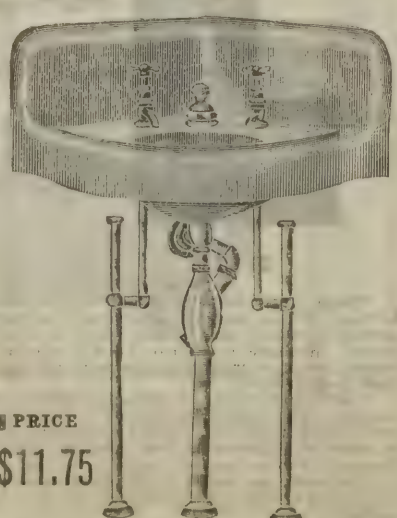
No. 5 A. 587. Genuine white porcelain enameled cast iron, one-piece lavatory, with D pattern bowl. Lavatory is furnished with improved brackets, nickel-plated model lifting waste, low down compression faucets with china tops marked "Hot" and "Cold", offset air chamber supply pipes, bottle trap with waste to floor and vent to wall. Size of slab 18"x21", height of back 8", size of bowl 10"x14". Price for the above lavatory complete, strictly A grade and perfect as described, only **$13.60**

We can furnish above outfit as described, in B grade quality, for only **$11.50**

Enameled Iron One-Piece Corner Lavatory, Ideal Waste.

No. 5 A. 588. Genuine white porcelain enameled, one-piece, cast iron corner deep apron lavatory, with oval bowl, improved corner brackets, nickel-plated model waste, low down compression faucets with china tops marked "Hot" and "Cold", offset air chamber supply pipes, bottle trap with waste to floor and vent to wall. Length of sides 20", height of back 8", size of bowl 11"x14". Strictly A grade and perfect. Price only..... **$13.86**

We can furnish above outfit in B grade quality for only..... **$11.75**



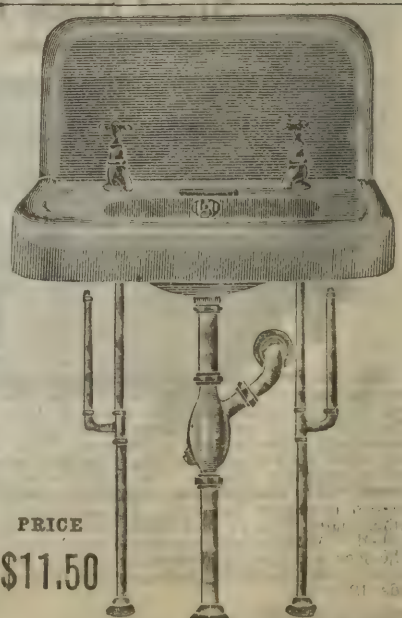
PRICE
$11.75

Enameled Iron One-Piece Straight Wall Lavatory, High Back.

No. 5 A. 589. Genuine white porcelain enameled, one-piece, square apron lavatory, with D pattern bowl, improved brackets, nickel-plated waste plug and couplings, chain and rubber stopper, low down compression faucets with china tops marked "Hot" and "Cold", offset air chamber supply pipes, bottle trap, with waste to floor and vent to wall. Size of slab 18"x24", height of back 12", size of bowl 11"x15". Price for above outfit as described, only..... **$13.38**

We can furnish this outfit, in B grade quality, for only..... **$11.50**

We can also furnish the above outfit in larger size, with 20"x24" slab at an additional cost of $1.00 to the above price.



PRICE
$11.50

We can furnish all of the above lavatories with iron pipe connections, and wipe the outlets so that no plumbing work will be required, at an additional cost of 70 cents to the prices quoted above. All supply pipes on these lavatories are already threaded for ⅜" iron pipe connections.

Enameled Iron One-piece Corner Lavatory, Deep Apron, only $12.50

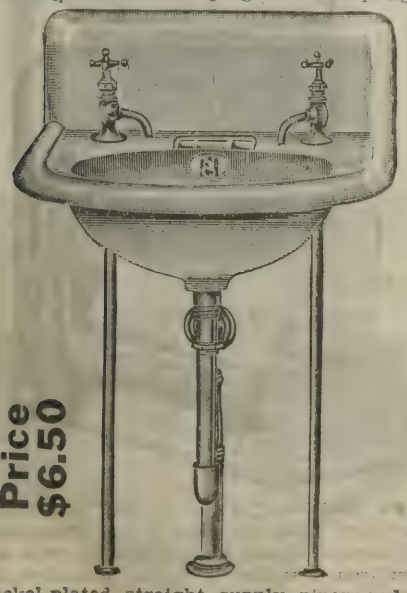
No. 5 A. 590. Genuine white porcelain enameled, one-piece, corner deep apron lavatory, with D pattern bowl, sanitary soap tray, improved corner brackets, nickel-plated waste plug and couplings, low down compression faucets, chain and rubber stopper, faucets fitted with china tops marked "Hot" and "Cold", offset air chamber supply pipes, and S trap with waste to floor and vent to wall. Length of sides

20", height of back 8", size of bowl 10"x14". Price for above lavatory as described, strictly A grade and perfect, only....$12.50

We can furnish this outfit in B grade quality for only.....$10.50

Enameled Iron One-piece Lavatory, Vented Trap, only $8.40

No. 5 A. 593. Genuine white porcelain enameled, one-piece, half-circle lavatory, with D pattern bowl, sanitary soap tray, improved brackets, nickel-plated compression faucets, chain and rubber stopper, nickel-plated waste plug and couplings,

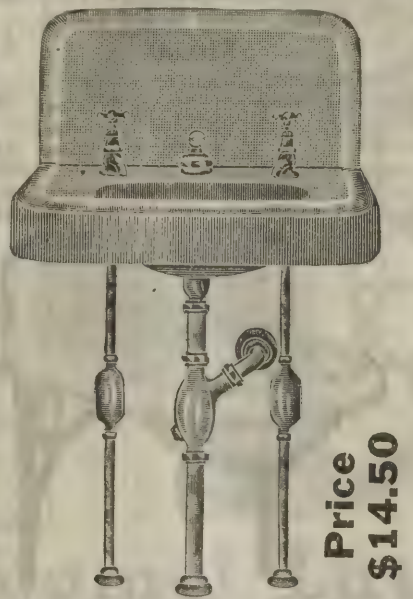


nickel-plated straight supply pipes and S trap with waste to floor and vent to wall. Size of slab 17"x19", height of back 6", size of bowl 10"x14". Price for this lavatory, as described, only.....$8.40

We can furnish the above outfit in B grade quality for only.....$6.50

Enameled Iron One-piece Straight Wall Lavatory, High Back, only $16.14

No. 5 A. 591. Genuine white porcelain enameled, one-piece, square apron lavatory, with D pattern bowl, improved brackets, nickel-plated waste plug and couplings, chain and rubber stopper, low down compression faucets with china tops marked "Hot" and "Cold", nickel-plated model waste, bottle air chamber supply pipes,



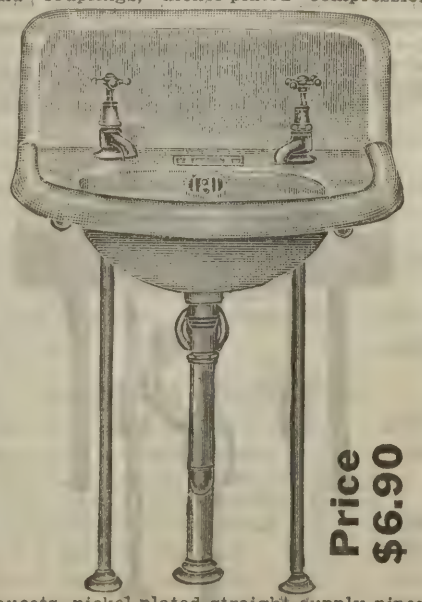
bottle traps with waste to floor and vent to wall. Size of slab 18"x24", height of back 12", size of bowl 11"x15". Price for above outfit as described, only.....$16.14

We can furnish the above outfit in B grade quality for only.....$14.50

We can also furnish the above outfit in larger size, with slab 20"x24", at an additional price of $1.00 over above prices.

Enameled Iron One-piece Lavatory, price only $8.80

No. 5 A. 594. Genuine white porcelain enameled, one-piece, half-circle lavatory, with D pattern bowl, sanitary soap tray, improved brackets, nickel-plated waste plug and couplings, nickel-plated compression

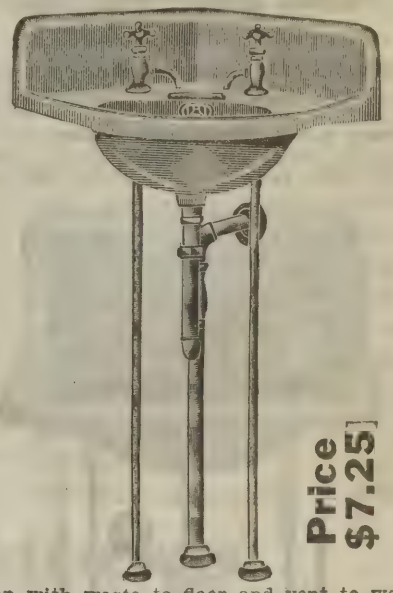


faucets, nickel-plated straight supply pipes, and S trap with waste to floor and vent to wall. Size of slab 18"x21", height of back 8", size of bowl 10"x14". Price for this lavatory, as described, only.....$8.80

B grade, Price..... 6.90

Enameled One-piece Corner Lavatory Complete, only $8.22

No. 5 A. 592. Genuine white porcelain enameled, one-piece, corner lavatory, with D pattern bowl, nickel-plated brass sanitary soap tray, improved corner brackets, nickel-plated waste plug and couplings, chain and rubber stopper, nickel-plated compression faucets, supply pipes and S



trap with waste to floor and vent to wall. Length of sides 16½", height of back 6", size of bowl 10"x14". Price for above lavatory, complete as described, strictly A grade and perfect, only.....$8.22

We can furnish above outfit in B grade quality, complete as described, for only $7.25

Enameled Iron One-piece Corner Lavatory, only $8.82

No. 5 A. 595. Genuine white porcelain enameled, one-piece, corner lavatory, with D pattern bowl, sanitary soap tray, improved brackets, nickel-plated waste plug and couplings, chain and rubber stopper, nickel-plated supply pipes, S trap with

waste to floor and vent to wall. Length of sides 19½", height of back 6", size of bowl 11"x16". Price for this lavatory, as described, strictly A grade and perfect only $8.32

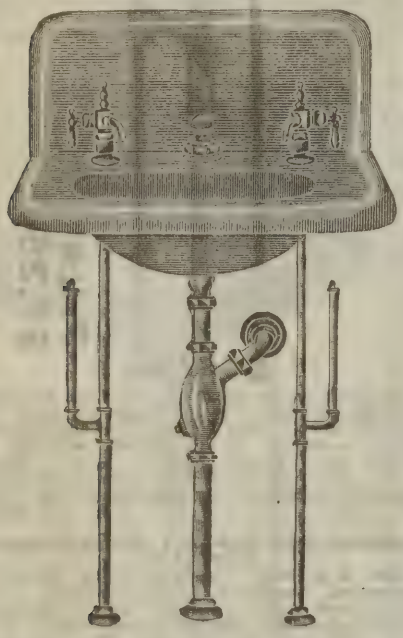
We can furnish above outfit in B grade quality for only.....$7.40

We can furnish all of the above lavatories, with iron pipe connections, wiped on the outlets so that connection can be made direct to iron pipe, at an additional cost of 70 cents. All supply pipes on these lavatories are already threaded for ⅜" iron pipe connections.

ENAMELED LAVATORIES

Genuine Porcelain Enameled Iron One-Piece Lavatory, Model Waste Vented Trap, complete, only $14.04

No. 5-A-596. Genuine white porcelain enameled, one-piece, square lavatory, with D pattern bowl, improved brackets, nickel-plated model waste, nickel-plated Fuller faucets, offset air chamber supply pipes and bottle trap, with waste to floor and

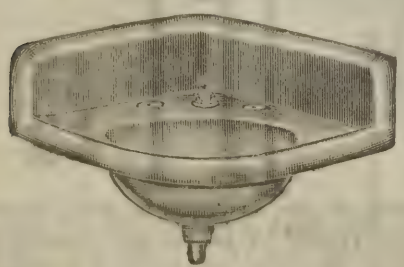


vent to wall. Size of slab 18"x24", height of back 10", size of bowl 11"x15". Price for this outfit as above described guaranteed strictly A grade in every way, only $14.04

We can furnish this lavatory in B grade quality for only $12.50

Enameled Iron Corner Lavatory, with Model Waste, only $7.32

No. 5-A-599. Genuine white porcelain enameled, one-piece corner lavatory, fitted with nickel-plated model waste and improved brackets; length of side 20½", height of back 6", oval bowl 11"x14". Price



for the above lavatory, complete, guaranteed A grade and perfect, only..... $7.32

We can also furnish this lavatory in B grade quality for only..... $6.25

Enameled Iron One-Piece Lavatory Fuller Faucets, Vented Trap, complete, only $10.60

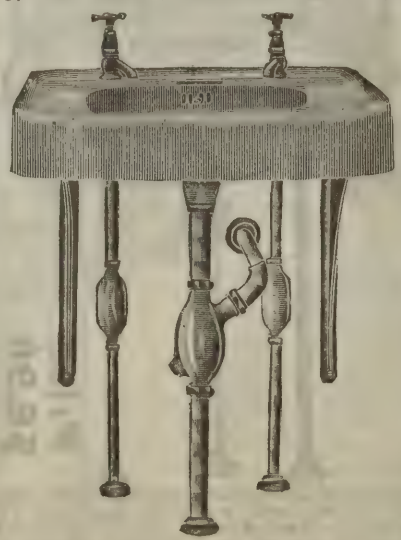
No. 5-A-597. Genuine white porcelain enameled, one-piece, square lavatory, with D pattern bowl, improved brackets, nickel-plated waste plug and couplings, chain and rubber stopper, nickel-plated Fuller faucets, offset air chamber supply pipes and S trap, with waste to floor and vent

to wall. Size of slab 18"x24", height of back, 10", size of bowl 11"x15". Price for this lavatory, complete as described, strictly A grade and perfect, only... $10.60

We can furnish above outfit in B grade quality for only..... $9.25

Genuine Porcelain Enameled Lavatory One-Piece Apron Pattern, only $13.74

No. 5-A-600. Genuine white porcelain enameled, cast iron lavatory; one piece, apron pattern, without back; oval bowl, waste plug and couplings, chain and rubber stopper, low down compression faucets with china tops, marked "Hot" and "Cold"; bottle air chamber supply pipes and bottle trap, with waste to floor and vent to wall.

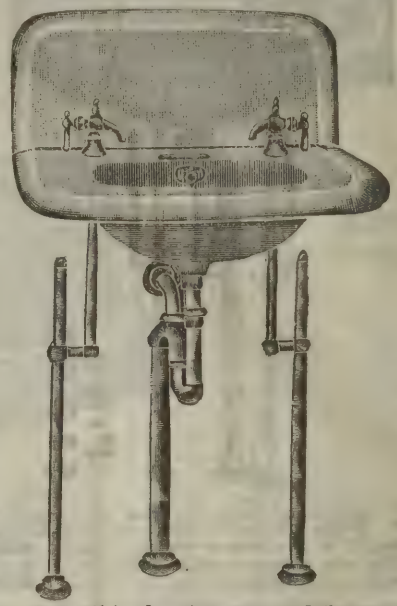


Size of slab 20"x24", size of bowl 12"x15". Price for this complete lavatory as above described, strictly A grade and perfect, only $13.74

We can furnish the above outfit in B grade quality for only..... $11.50

Enameled Iron One-Piece Half-Circle Lavatory, Model Waste, only $7.20

No. 5-A-598. Genuine white porcelain enameled, one-piece corner lavatory, fitted with nickel-plated model waste and improved corner brackets; size of slab 18½"x21", height of back 8", oval bowl 11"x14".



Price for this lavatory, complete as described, guaranteed A grade and perfect, only $7.20

We can furnish above lavatory in B grade quality for only..... $6.25

Our Sure Hold Adjustable Wall Lavatory Brackets

No. 5-A-601. The above cut represents our Sure Hold Adjustable Wall Brackets. We furnish this pattern of bracket with all cast iron enameled lavatories described on these pages. The special feature about this bracket is that it can be adjusted according to the exact width of the lavatory, regardless of any location of studding in the wall to which the lavatory is to be fastened. In other words, you do not have to get the bracket exactly beside the studding in the wall and you can set the lavatory just where you want it.

Enameled Pedestal Lavatory

The most elegant lavatory you could place in your home. Massive appearance; most modern and artistic design and highest grade nickel-plated trimmings.

No. 5-A-529. Consists of modern handsome white enameled iron Lavatory, oval slab with aprons and oval basin cast in one piece. It stands on a white enameled cast iron pedestal, and has nickel plated clamps and floor bolts. Trimmed with nickel plated, semi-low-down compression basin cocks, cross and ball handle with china index marked "Hot" and "Cold," with nickel plated Roman lifting waste with china index marked "Waste" with air chamber supply pipes to the wall with a wheel-handled stop valve on each, with nickel plated flask trap, vented, with vent and waste to wall, wall flanges, etc.

High Grade Outfit, price $28.00

White Enamel Lavatories

No. 5-A-533½.
One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay, 12-inch Round Bowl. Length of back, 15 inches. Height of Back, 6 inches.
Price, each.....$3.25

No. 5-A-534.
Corner One-Piece, Enameled, Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay, Nickel Plated Soap Cup, Oval Bowl, 11x15. Length on Side, 16 inches. Height of back, 6 inches.
Price, each.....$4.25

Solid, One-Piece, Seamless, Iron Lavatories, White Porcelain Enameled. Each one complete with brackets and nickel plated overflow. No other fittings. Our charge for fittings extra is noted below. These lavatories are absolutely new, but are Class "B" with Ivory Enamel, or pin hole or some other slight blemish.

No. 5-A-530.
Same as 5-A-534, with 8-inch back.
Price, each.....$4.65

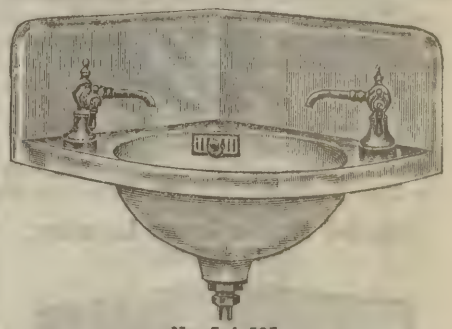
No. 5-A-531.
Same as 5-A-534. Length on sides, 19 inches. Bowl, 11x15. Height of back, 8 inches.
Price, each.....$5.00

No. 5-A-532.
Same as 5-A-536, with 8-inch back.
Price, each.....$4.65

No. 5-A-533.
Same as 5-A-536. Size of slab, 18x24, 10-inch back.
Price, each.....$6.25

LAVATORY TRIMMINGS.

Basin Cocks, Fuller, per pair	$1.70
Basin Cocks, Compression, each	.55
Basin Cocks, Compression, extra pattern. Cross and Ball Handle and China Indexes, made with stuffing box, per pair	2.50
1¼ N. P. plain "S" traps, each	1.75
1¼ N. P. plain "P" traps, each	1.65
1¼ N. P. vented "S" traps, each	2.00
1¼ N. P. vented "P" traps, each	1.90
Supply pipes— straight N. P., per pair	1.50
Supply pipes—air chamber, N. P., per pair	2.00
Supply pipes—to wall, no air chamber, N. P., per pair	1.75
Supply pipes—to wall, air chamber, per pair	2.50

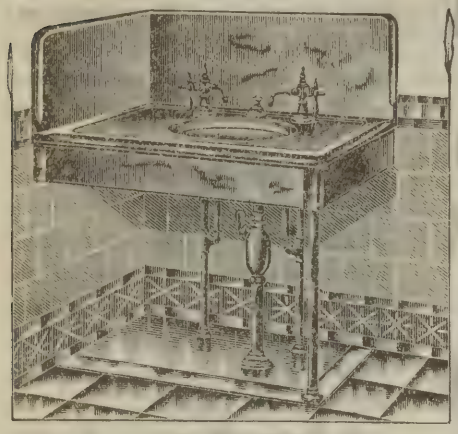


No. 5-A-535.
Corner One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay; 12-inch Round Bowl. Length on sides, 15 inches. Height of back, 6 inches
Price, each.....$4.25

No. 5-A-536.
One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay; Oval Bowl 11x15. Length of back, 19 inches. Height of back, 6 inches.
Price, each.....$4.65

Marble Lavatories, Highly Polished. Every Lavatory Guaranteed Absolutely "A" Grade, Brand New and Perfect.

Polished Marble Corner Lavatory, Complete, Only $20.00.



No. 5-A-537.

Consists of 1¼ inch Italian countersunk marble slab, with 12 inch back and left hand end, 5 inch apron on front and right hand end, 14x17 inch oval basin, nickel-plated patent basin waste, two Fuller nickel-plated basin cocks, one nickel-plated brass apron leg, two nickel-plated apron supports, three basin clamps, 1¼ inch nickel-plated brass trap with vent to wall and waste to floor, two nickel-plated supply pipes with air chambers (to floor), floor and wall flanges.

No. 30. Italian marble. Price.....$20.00
No. 20½. Tennessee marble. Price.. 19.00

Polished Marble Corner Lavatory, Only $10.00.

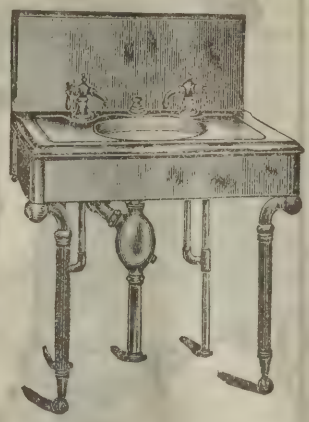
No. 5-A-540.

Consists of ¼-circle Italian marble lavatory with two backs, Fuller basin cocks, 14 inch patent overflow porcelain basin, nickel-plated vented "P" trap, waste and vent to wall and nickel-plated supply pipes to wall, nickel-plated chain and rubber stoppers, clamps, flanges, etc., complete.

No. 24. Italian marble. 14 inch basin. Price..... $10.00
No. 25. Italian marble. 14x17 inch basin. Price..... 11.00
No. 24½. Tennessee marble. 14 inch basin. Price..... 9.50
No. 25½. Tennessee marble. 14x17 inch basin. Price..... 10.50

Trap and supplies to floor, no extra charge. Trap without vent, same price.

Polished Marble Straight Wall Lavatory, Only $21.00.



No. 5-A-538.

Consists of single back lavatory, 1¼ inch Italian countersunk marble slab, with 12 inch back, 5 inch apron on front and ends, 14x17 inch oval basin, nickel-plated patent basin waste, two Fuller nickel-plated basin cocks, two nickel-plated brass apron legs, two nickel-plated apron supports, three basin clamps, 1¼ inch nickel-plated brass trap with vent to wall and waste to floor, two nickel-plated supply pipes with air chambers (to floor), floor and wall flanges.

No. 31. Italian marble. Price..... $21.00
No. 31½. Tennessee marble. Price... 20.00

Polished Marble Corner Lavatory, Only $16.00.

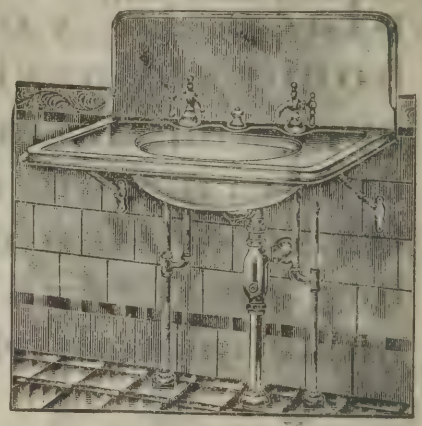
No. 5-A-541.

Consists of ¼-circle Italian marble lavatory, with two backs, Fuller basin cocks and 14x17 inch porcelain basin, nickel-plated Roman lifting waste, nickel-plated flask trap, waste to floor and vent to wall, nickel-plated air chamber supply pipes, clamps, flanges, etc., complete.

No. 26. Italian marble. Price.....$16.00
No. 26. Tennessee marble. Price.... 15.00

Trap waste and supply pipes to the wall when so specified, no extra charge.

Polished Marble Straight Wall Lavatory, Only $16.00.



No. 5-A-539.

Consists of countersunk Italian marble lavatory with single back, oval basin and nickel-plated Roman lifting waste, nickel-plated Fuller basin cocks and air chamber, supply pipes to floor, nickel-plated vented flask trap, waste to floor, vent to wall, nickel-plated rope pattern brass brackets, flanges and clamps.

No. 59. Complete as described. Price..$16.00
No. 59½. Tennessee marble. Price... 15.50

Polished Marble Straight Wall Lavatory, $13.00.

No. 5-A-542.

Consists of ½-circle countersunk Italian marble lavatory, with single back, 14x17 inch patent overflow oval basin, nickel-plated Fuller basin cocks, nickel-plated vented "S" trap, waste to floor and vent to wall, nickel-plated air chamber, supply pipes to floor, nickel-plated brass rope pattern brackets, nickel-plated chain stay, chain, stopper and flanges.

No. 58. Complete as described. Price.$13.00
No. 58½. Tennessee marble. Price.... 12.50
Above with 14 inch round basin, deduct 1.00

Marble Lavatories Highly Polished. Guaranteed "A" Grade and Brand New and Perfect.

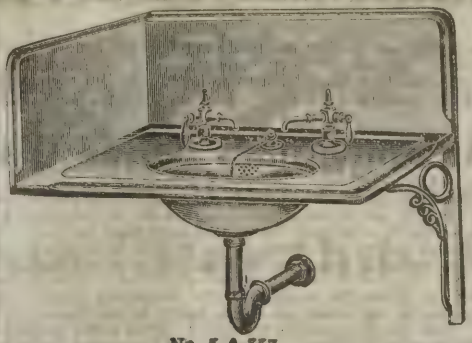
Polished Marble Straight Wall Lavatory, only..... $9.00

Brand new Champion Pink Tennessee or Italian marble straight wall lavatory, as above, guaranteed perfect in every way. This outfit is furnished complete with nickel-plated Fuller basin cocks, one pair of nickel-plated brackets, nickel-plated "S" trap from basin to floor, including floor flange plate, exactly as above.

No. 5-A-556.

Price, with 14" round basin..... $ 9.00
Price, with 14"x17" oval basin..... 10.00
We will furnish "P" trap to wall instead of "S" trap to floor, at same price.
If nickel-plated supply pipes are desired, add 1.50
Can furnish these either to floor or to wall.

Polished Marble Corner Lavatory, only..... $9.00



No. 5-A-557.

Brand new Champion Pink Tennessee or Italian marble corner lavatory as above, guaranteed perfect in every way. This outfit is furnished complete with nickel-plated Fuller basin cocks, one pair of nickel-plated brackets, nickel-plated "S" from basin to floor including floor flange plate, exactly as above.

Price, with 14" round basin..... $ 9.00
Price, with 14"x17" oval basin..... 10.00
We will furnish "S" trap to floor instead of "P" trap to wall, at same price.
If nickel-plated supply pipes are desired, add 1.50
Can furnish these either to floor or to wall.

Polished Marble Straight Wall Lavatory, only..... $7.25

No. 5-A-558.

Consists of Italian or Tennessee marble slab with single back earthenware basin, new compression basin cocks, brackets, new nickel-plated trap with waste to wall, wall flange clamps, chain and stopper.

Price, with 14" earthenware basin..... $7.25
Price, with 14"x17" earthenware basin..... 8.00
We can furnish vented traps with above outfit at an additional cost of..... .50
Nickel-plated supply pipes, additional cost.. 1.50
Nickel-plated "S" trap with waste to floor, same price.

Polished Marble Lavatory for Straight Wall, only..... $11.50

No. 5-A-559.

Consists of 1¼" Italian marble lavatory solid countersunk slab with back, patent overflow with basin metal plug and rubber stopper, nickel-plated chain stay and snap, two Fuller nickel-plated basin cocks, two nickel-plated brass brackets and three basin clamps, 4½" brass nickel-plated "S" trap with waste to floor and vented to wall, two nickel-plated supply pipes to floor with air chamber, floor and wall flanges complete

Price for above outfit with 14" round earthenware bowl..... $11.50
Price for above outfit in Tenn. marble..... 11.00
If 14"x17" bowl is desired, add..... 1.00

Polished Marble Lavatory for Corner, only..... $11.50

No. 5-A-560.

Consists of 1¼" Italian marble countersunk solid slab for corner with corner back pieces, patent overflow, basin with metal plug and rubber stopper, nickel-plated chain stay and snap, two Fuller nickel-plated basin cocks, two nickel-plated brass brackets and three basin clamps, 1½" brass nickel-plated "S" trap with waste to floor and vented to wall, two nickel-plated supply pipes to floor with air chamber, floor and wall flanges complete.

Price for above outfit, with one bracket, back and end piece for right or left hand corner, 14" round basin..... $11.50
Price for above outfit in Tenn. marble..... 11.00
If 14"x17" bowl is desired, add..... 1.00

Polished Marble Lavatory for Corner, only..... $7.75

No. 5-A-561.

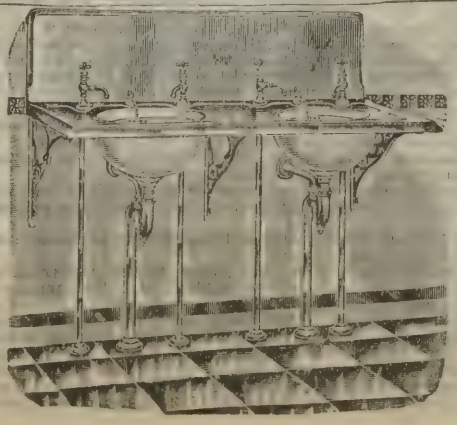
Consists of one-quarter circle Italian or Tennessee marble slab with two backs, new compression basin cocks, earthenware basin, nickel-plated trap with waste to wall, wall flange clamps, chain and stopper.

Price for above outfit with 14" earthenware basin..... $7.75
Price, with 14"x17" basin..... 8.50
If vented trap is desired with above outfit, add .50
Nickel-plated brass supply pipes can be furnished at an additional price of..... 1.50
Nickel-plated plain "S" trap with waste to floor at same price.

Polished Marble Lavatories, One Piece Continuous Slab, For Wash Rooms.

Beautiful Italian Marble Two-Bowl Outfit, only.... $25.00

We Can Furnish Any Number of Bowls Desired.



No. 5-A-562.

Consists of marble slab and back, fitted with two patent overflow basins, nickel-plated compression basin cocks, nickel-plated vented "S" traps, nickel-plated brackets and nickel-plated straight brass supply pipes, clamps, chain stays, chains, stoppers and flanges.

Italian marble. Two 14" bowls. Price.... $25.00
Italian marble. Two 14"x17" bowls. Price. 28.00
Tennessee marble. Two 14" bowls. Price... 24.00
Tennessee marble. Two 14"x17" bowls. Price 27.00
For each additional 14" bowl, add..... 11.00
For each additional 14"x17" bowl, add..... 13.00

We Give the Biggest Values in Plumbing Material.

Closet Combinations of Every Description

The prices that we are offering on these closet outfits as listed in the following pages are positively the lowest prices that we ever placed before the public on this class of material. They are even lower than the prices that are regularly holding at the present time in the regular wholesale supply houses to plumbers. In other words, the prices at which you can buy these fixtures as listed on these pages are positively lower than your plumber himself can buy them. You can readily see what a saving you are making.

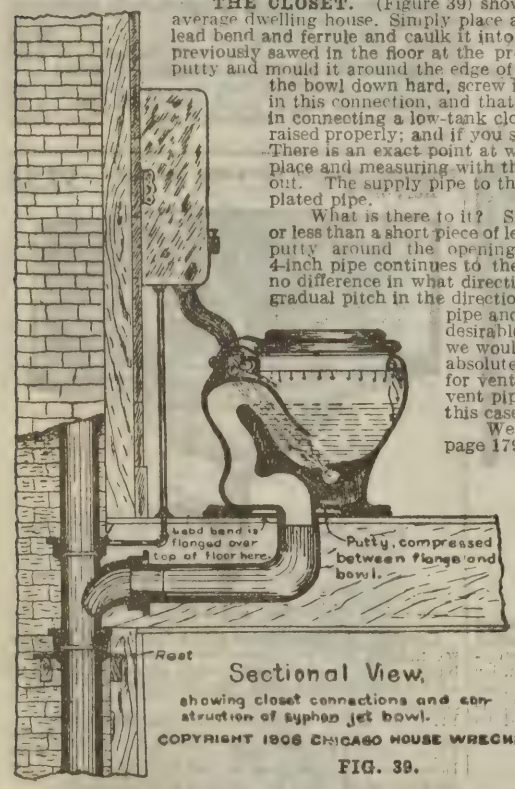
An Imaginary Stone Wall

Did you ever stop to think what an enormous amount of money is needlessly expended every year by inexperienced persons in paying exhorbitant plumbers' bills? Think it over. Ask your local plumber what he will put in one of these outfits for, all complete and set up in your home. Then look over these pages. You can easily select from this large assortment an outfit similar to the one he is figuring for you. Note the prices that we can furnish it to you. This will open your eyes to the situation. But why is it that people will persist in paying these exhorbiant prices in spite of the fact that we can furnish this material direct to them at a fair and honest price, probably one-third of what the plumber has figured it in their bill? It is easy to find the answer to this question.

Take for instance an average person, who does not know the secrets of the Plumbing Trade. He will admit at once that the prices that we are offering these outfits; in fact, all of this plumbing material as listed on these pages is far below anything that can be secured from any concern in the country. However, the first thing he will ask is: "How can I install the material? Does it not require a skilled plumber to make the intricate connections and joints, etc., that are required and of which I know nothing about?" Here is the imaginary stone wall. We say imaginary and we can prove that this idea that the average person has about the difficulty of installing this material is imagination, pure and simple.

What is there to the installing of a closet anyway? If you once saw a plumber putting one of these outfits in and realized what a simple matter it was, you would well hesitate before you would pay any such prices as are usually demanded by plumbers for this work. Furthermore, if half the people of the country owning small homes and of average means could fully realize what a simple matter it is to install one of these outfits in their homes, there certainly would not be many homes without a modern convenience of this kind.

We want you to read carefully our complete instructions as given in our Special Heating Catalog. If you are contemplating any improvement of this kind, it will certainly be to your interest to read these instructions very carefully. The following is an extract taken from these instructions:



Sectional View, showing closet connections and construction of syphon jet bowl.

COPYRIGHT 1908 CHICAGO HOUSE WRECKING CO.

FIG. 39.

THE CLOSET. (Figure 39) shows the standard manner of connecting the closet with the soil pipe as it is usually arranged in the average dwelling house. Simply place a 4-inch standard sanitary tee in the line of soil pipe at point required; take a 4-inch combination lead bend and ferrule and caulk it into this tee; have the end of this ferrule projecting about an inch above the hole which has been previously sawed in the floor at the proper point; then carefully flange this bend around on the surface of the floor; take some ordinary putty and mould it around the edge of this opening and set the bowl in place. Be sure to put plenty of putty at this point and press the bowl down hard, screw it to the floor and you will have a good, tight joint. There is one important point to be considered in this connection, and that is to be sure to get the bowl set the proper distance from the wall. This is especially important in connecting a low-tank closet; if the bowl is set too close to the wall the tank will interfere with the seat and it cannot be raised properly; and if you set it too far away probably the connections will not be long enough to make the proper connection. There is an exact point at which this ought to be set, which can be very easily determined by setting the tank temporarily in place and measuring with the connection, and then marking on the floor the center point where the opening should be sawed out. The supply pipe to the closet tank is always ⅜-inch and has a ⅜-inch iron pipe thread on the end. This is a nickel-plated pipe.

What is there to it? Simply sawing a round hole in the floor, connecting up a 4-inch lead ferrule, which is nothing more or less than a short piece of lead pipe with a round collar to reinforce it. Flange the mouth of the bend over the floor and put a little putty around the opening; then set the closet bowl in place and screw it down. The only requirement is that the 4-inch pipe continues to the cesspool and that a connection is made to the ⅜-inch supply pipe to the closet tank. It makes no difference in what direction or what manner you carry this 4-inch pipe to the sewer or cesspool, as long as you give it a gradual pitch in the direction in which the water is running. The cut as given on this page shows a tee placed in the soil pipe and the soil pipe continues up to the roof for ventilation. This makes a more sanitary job and is desirable where a bathroom outfit is being taken care of. However, if you are only putting in one closet, we would recommend that you use our No. 87A closet outfit with the special anti-syphoning ball cock which absolutely prevents syphoning, and when this is used, it is not necessary to run the soil pipe to the roof for ventilation, as it is impossible for the water to be drawn out of the trap in the closet bowl and no vent pipe is necessary, unless the bathroom fixtures or any others are connected to the same soil pipe. In this case, we would recommend that the 4-inch soil pipe be continued to the roof for ventilation.

We want you to read carefully the complete description of our No. 87A closet outfits, as given on page 179.

The Only Requirement

The only requirement is that you have water under pressure in your building. It makes no difference whether you have a modern Air Pressure Outfit; whether you are supplied by the city water system or whether you have a simple and inexpensive Storage Tank in your attic. These closets as listed on these pages will give just as good satisfaction when supplied from an elevated tank in the attic as they will from any of the more expensive systems, and if you have a water supply system of this kind, you certainly should not be without one of these closet outfits; in fact, a complete bathroom equipment in your home.

Sewerage System Not Essential

Many people have the impression that unless the sewerage system of the town is available for connection it is not practical to have one of these closet outfits installed. This is positively a mistake. It is a very simple matter to construct a sanitary cesspool which will give you no more trouble than if the pipe were discharging into the city sewage system. We submit herewith a description of a sanitary Septic Cesspool which has been built by many of our customers, and if these instructions are followed, and one of these cesspools carefully built about forty feet distant from your house, you will never have any trouble in getting rid of the waste water. The chemical decomposition which takes places in the cesspool changing all to clear water which soaks away into the ground, renders stoppage impossible. Read these instructions carefully.

THE CESSPOOL. (Figure 55) shows a very clever construction of cesspool, which is less liable to become stopped up and will last a much longer time than any other arrangement which could possibly be devised. The greatest objection to a cesspool is its liability to clog and become water-tight. This usually takes place in a very short time in compact soils or in fine sand. The bottom soon becomes choked with sediment and grease and the water line rises until the cesspool becomes entirely filled up. Then the only remedy is to build a new one. By using the arrangement shown in this illustration, however, these objections are done away with. The aim of the design is to arrest the sediment and scum and bring comparatively clear liquid in contact with the absorbing surfaces, thereby prolonging the life and usefulness of the cesspool indefinitely. A careful study of the conditions existing in the cesspool led to this design. It has been found that there are three distinst layers in every cesspool: First, the sediment layer at the bottom; second, the clear liquid; on top of this the grease and scum, as shown in this illustration. It will be very clearly seen that by using a trap arrangement with the end outlet below the clear liquid line the grease and scum will be entirely prevented from getting up into the outside of the cesspool where the water is allowed to soak away.

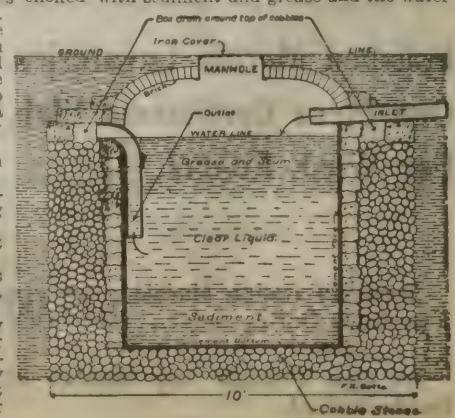


FIG. 55.

There is of course a constant chemical decomposition going on in every cesspool, and this scum gradually decomposes and turns to clear liquid, passing away in the usual manner.

The main idea in this construction is that this grease and scum does not get to the outside of the cesspool until it is decomposed, so that it cannot choke up the openings and prevent the water from soaking away.

A cesspool of this kind will last several years without cleaning and if the sediment is cleaned out from time to time it can be kept in serviceable condition for many years.

The cesspool, together with the air pressure water supply systems and other special conveniences which are to be had in these days, makes it possible for one to enjoy all the comforts of a city home in a country residence. You do not need to live in a city nowadays to have all these conveniences.

Do not let the matter of getting the work done prevent you from taking advantage of these very low prices. Send us in your order. We will furnish you any special instructions that your particular case may require. We will guarantee that you will be able to get it installed without a hitch. Remember, if you do not care to do the work, you can always get some ordinary mechanic who will be very glad to do it, and by following out our very clear instructions and you overseeing the work, you will get just as good a job done in every way as you will by your paying double or three times the price to your local plumber.

Special Closet Combination

No. 87=A.

White Porcelain Enameled Steel Tank, Strictly "A" Grade and Perfect Compound Ball Cock. Simplest Flushing Mechanism on the Market

Special Bargain Offer Only $11.50 Each

Every Outfit Guaranteed.

Here is positively the greatest bargain ever offered in an up-to-date modern closet combination. We could not possibly furnish you a more high grade outfit, regardless of what price you would pay for it. Every part of this combination to the most minute detail has been given itemized attention in design and workmanship and as this outfit stands, it represents the simplest possible construction, with the fewest working parts of any closet outfit on the market at the present time.

The flushing mechanism could not possibly be further simplified. We show herewith diagram views, showing the interior construction of the arrangement of the parts which operate the flushing mechanism. Note in particular the compound ball cock which will close against the highest pressure that will ever be experienced. In small towns especially, this ball cock is desirable. That is in small towns where the water pressure generally gets up to an extreme high point, sometimes as high as 75 to 100 lbs. Here is a ball cock that will close against even 150 lbs. pressure. The compound leverage, which is secured in the special construction of the beam, which closes the cock in connection with the float valve, gives it almost double the acting power, and renders leaking of the ball cock impossible, regardless of what pressure it has to operate against in closing the valve.

Note that this ball cock has an adjustable elbow at point marked "c" in the diagram. There is a small thumb screw at this point and by regulating the copper float ball "d" so that it will be at a certain height in the tank, you can regulate the amount of water that you want to use for flushing the closet to the exact point you desire. This is another very desirable feature, especially if you have an air pressure system or an elevated tank system of water supply in your home and where every drop of water counts. It saves useless waste of water, pumping, etc., as you can adjust this ball cock by setting the thumb screw at point "c" so that you will use just the amount of water that is required to flush the closet. No more and no less. With the old style outfits, there was only one point at which this ball could be set and hence a large amount of surplus water was lost in this way, which could be very easily saved.

Note the simplicity of the ball valve, that is, the large rubber ball marked "i" which is connected to the rods connecting with the small lever "n," which in turn is acted upon by the push button "k." Note that as soon as this push button is pressed in, the lever "n" causes the ball to rise out of the opening and the water comes in under the ball and causes it to float. It will therefore allow all the water in the tank to run out and flush the closet and as soon as the contents of the tank have been emptied, the rubber ball falls back into position and closes up the opening.

Also, another special feature about this closet is the refilling arrangement in connection with the ball cock. This consists of the small copper tube marked "a." After the entire contents of the tank have been discharged and the tank is refilling, a small percentage of the water is caused to rise up over this copper tube and flows down through the large brass tube "e," which leads to an opening in the closet bowl and this fills up the trap so that any possible syphoning of the trap in the closet which may have occurred in the flushing of the closet, will be entirely made up for by this additional water which is supplied after the closet has been flushed out.

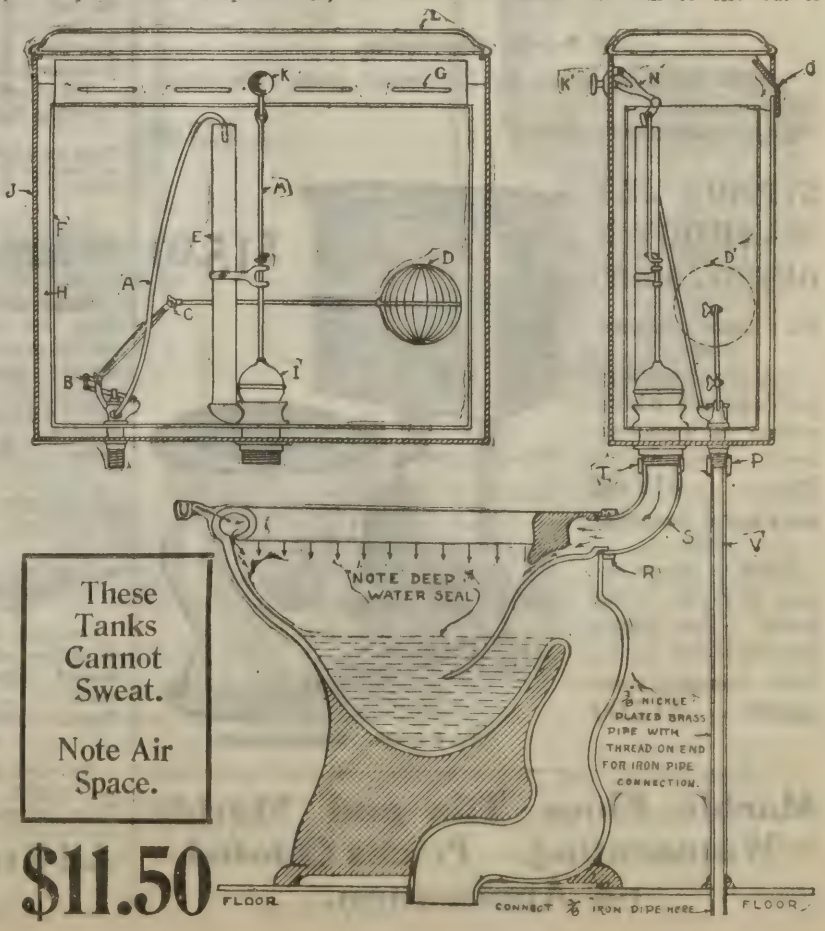
These tanks are made entirely of steel. They consist of two separate enameled steel tanks, one within the other, the outer tank being genuine white porcelain enameled both inside and out, and the inside tank being also genuine porcelain enameled inside and out. In fact, both these tanks are enameled all over so that rusting or deterioration is impossible at any point.

Note that there is an air space of about half an inch between the two linings and this is to prevent the tank from sweating as it may do when there is only one separate compartment. The inside tank contains the water and with this air space between the two separate linings, it is impossible for the tank to sweat on the outside.

The tanks are equipped with a white porcelain enameled steel ornamental cover. The closet bowl furnished with these outfits, is the latest and most improved pattern of syphon washdown bowl and the entire outfit is furnished complete with nickel plated elbow flush connection, slip joints, nickel plated brass supply pipe with couplings, floor flanges, etc., and with ½ inch iron pipe threaded for iron pipe connection.

The outfit is also furnished complete with improved wood seat and cover with any finish you desire. We can furnish the woodwork in either light oak, dark oak, or imitation mahogany finish. This outfit is certainly without any question the highest grade outfit on the market at any price, and will improve the appearance of any bathroom 100%. The tank presents the massive appearance of solid porcelain tank, and would require close examination to determine whether it were genuine porcelain or not. Remember, these tanks are pure white, can easily be kept clean and you will never be troubled with a leaky tank or warped woodwork, etc., as is experienced with the old style wooden tanks. These tanks will last a lifetime. Special low price for these outfits as described. A limited number left. Send in your order at once.

Price each, only..... **$11.50**



These Tanks Cannot Sweat.

Note Air Space.

Syphon Jet Low Down Closets

$17.00

Each outfit complete as follows: Porcelain bowl, round cornered; polished hard wood low down, copper lined and nickel-plated clamps, polished hard wood seat and cover attached to earthenware bowl with nickel-plated brass seat attachments, fine nickel-plated flush connection and supply pipe, with floor plate, couplings, etc., nickel-plated push button action. The whole outfit complete and ready to connect. Strictly high grade.

No. 5-A-548. Combination.

No. 5-A-548. Combination.

Consists of outfit complete as above, and plain syphon jet bowl.
Price each.....**$17.00**

No. 5-A-549. Combination.

Same as the above, except bowl is second grade. The defects are very slight.
Price, complete combination.....**$13.00**

SYPHON JET WASHDOWN OUTFIT, $15.00

$15.00

No. 5-A-550. Combination.

Consists of outfit as above and plain syphon jet washdown bowl.
Price.....**$15.00**

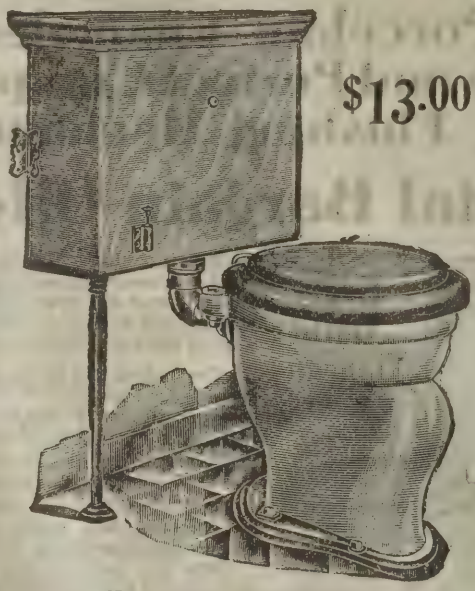
No. 5-A-551. Combination.

Same as above, except bowl is second grade. The defects are very slight.
Price, complete combination.....**$12.00**

No. 5-A-550. Combination.

Marble Floor Tile and Marble Wainscoting. Prices Quoted on Application.

Low Down Closets, Syphon Washdown



$13.00

Each outfit complete as follows: Vitreons Porcelain Syphon Washdown Closet bowl, round cornered polished hardwood tank copper lined, with nickel-plated "push button" action, polished hardwood seat and cover attached to the bowl, with nickel-plated post hinges, nickel-plated elbow flush connection, nickel-plated supply pipe to the floor, nickel-plated floor plate, screws, etc. The whole outfit complete and ready to connect.

No. 5-A-552. Combination.

These Washdown outfits that we are offering at $13.00, style No. 5-A-552, are absolutely the most perfect and sanitary syphon closet on the market. We guarantee them in every way. They are brand new, strictly first class and perfect. Our low price gives you an opportunity to save anywhere from $5.00 to $10.00 on your purchase.

The closet bowl is made of the very highest grade semi-vitreous porcelain. They are as hard as flint, and have perfectly glazed surface, both outside and inside.

The tank and seat are made of hardwood thoroughly seasoned. The tank is lined with heavy copper and is complete with high pressure ball cock.

These outfits are made to last. You can buy with confidence, knowing that you are getting a superior article.

Price for above outfit as described only.....**$13.00**

No. 5-A-553. Combination.

Same as above, only the bowl is second grade. The defects are very slight.
Price, complete combination.....**$10.00**

EMBOSSED BOWL OUTFIT, $13.50

No. 5-A-554. Combination.

Consists of outfit as above and Embossed Washdown Bowl.
Price.....**$13.50**

$13.50

No. 5-A-554. Combination.

No. 5-A-555. Combination.

Same as above, only the bowl is second grade. The defects are very slight.
Price, complete combination.....**$10.50**

All Kinds of Doors and Sash from St. Louis Exposition.

High Tank Genuine Syphon Jet Closet Combination, only $13.00

No. 5-A-543. Combination.

Consists of Plain Syphon Jet Closet Bowl, with round cornered polished oak tank, with brackets; polished oak seat attached to bowl with nickel plated seat attachment; fine nickel plated flush and supply pipes; slip joint connection on flush pipe, and nickel plated chain and pull, seat bumper, floor screws, etc. Strictly High Grade Outfit.

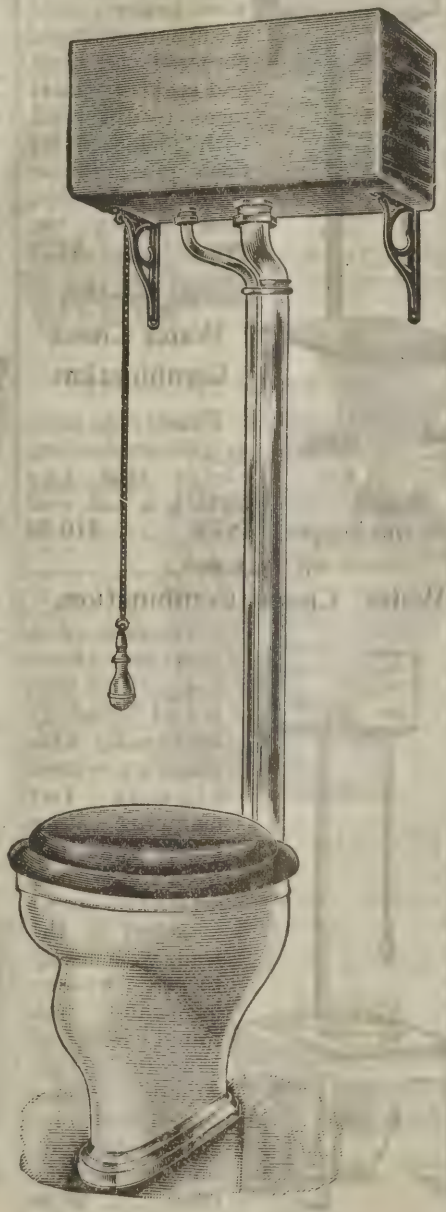
Price, as described $17.00

No. 5-A-544. Combination.

Same as above outfit, except that the bowl is second grade, with very slight defects.

Price, complete combination $13.00

High Tank Syphon Wash Down Outfit Complete, only $12.00



No. 5-A-547. Combination.

Consists of Plain Washdown Closet Bowl, with round cornered polished hardwood, oak finished tank, with brackets, polished hardwood oak finshed seat attached to bowl with nickel plated seat attachment, fine nickel plated flush and supply pipes, slip joint connection on flush pipe and nickel plated chain and pull.

Price, as described $12.00

High Tank Syphon Jet Wash Down Outfit, only $11.00

No. 5-A-546. Combination.

Consists of Plain Semi-Vitreous Porcelain Syphon Jet Washdown Closet Bowl, with round cornered polished oak tank, copper lined, with brackets. Polished oak seat attached directly to bowl, nickel plated flush and supply pipes, and nickel plated slip joint elbow connection, floor screws, chain and pull and rubber bumper.

Price, complete $14.00

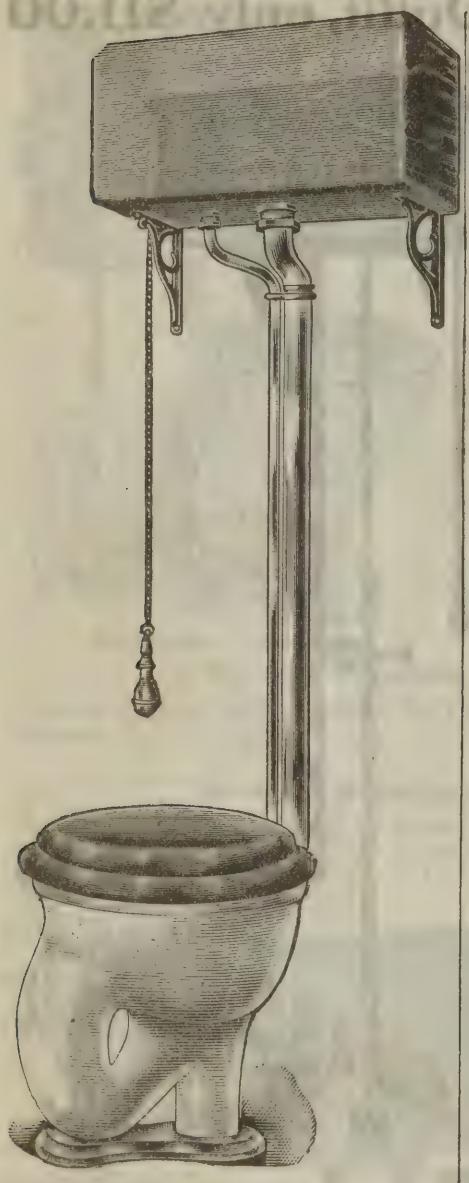
No. 5-A-545. 1-2 Combination.

Same as above, only bowl is second grade.

Price $11.00

If without Flush and Supply Pipes, deduct $2.00.

Bargain Water Closet Combinations



No. 5-A-602.

COMBINATION.

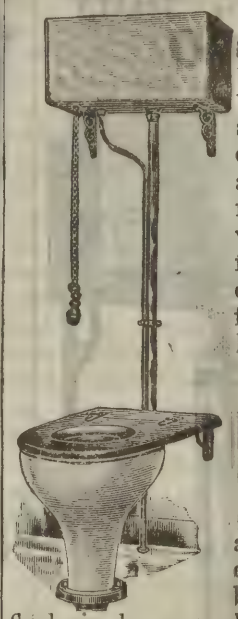
Consists of Plain Front Washout Closet Bowl, with round cornered polished hardwood, oak finished tank, brackets, polished hardwood oak finished seat attached to bowl, with nickel plated seat attachment, fine nickel plated flush and supply pipe, slip joint connection on flush pipe, and nickel plated chain and pull.

Price, as described.....$11.75

No. 47. Same as above only bowl is embossed. **Price.....$12.25**

No. 5-A-603.

Water Closet Combination.



Consists of a first grade tall, round flush rim earthenware hopper, with a top supply, round cornered oak tank, and seat for attachment to the wall, with nickel plated flush pipe, rubber elbow connection, floor screws, etc. **Price.....$7.75**

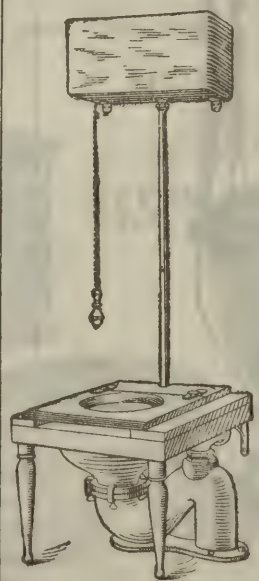
No. 5-A-604.

Water Closet Combination.

Exactly the same as 108 Combination, except that the bowl is a tall oval flush rim hopper. **Price.....$10.50**

No. 5-A-605.

Water Closet Combination.



Consists of a short round loose hopper and trap bowl (strictly first grade) with gasket and clamps for clamping the bowl and trap together, with a square seat attached to the wall, with neatly turned wooden legs, and with round cornered oak tank (top supply), nickel plated flush pipe and rubber elbow connection. **Price $9.50**

No. 5-A-606.

Water Closet Combination.

Consists of a short, oval loose hopper and trap bowl (first grade), with gasket and clamps, same as above, the rest of the trimmings exactly as No. 110 combination. See cut of No. 110 combination. **Price $10.00**

No. 5-A-607.

WASHOUT COMBINATION.

Consists of plain front washout closet bowl with trap vent; with copper lined polished hardwood tank with brackets; polished hardwood seat with back and brackets to fasten to the wall. Nickel plated flush and supply pipes, slip joint elbow connection, floor screws, chain and pull.

Price, complete

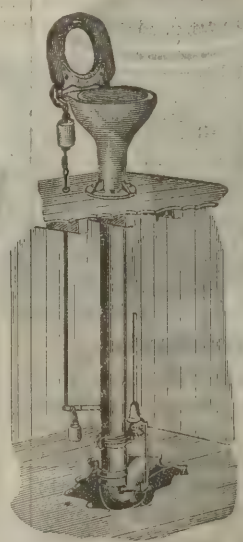
$11.00

If without vent trap

$10.75

No. 5-A-608.

Frost Proof Water Closet Combination.



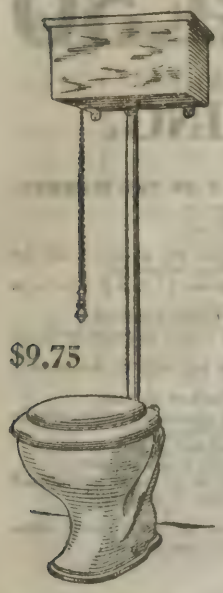
Consists of a vitreous earthen, flush rim hopper, with an oak self raising seat, frost proof valve, iron rod to open valve when seat is down, 5 ft. length of cast iron waste pipe, ½ "S" cast iron trap tapped for drain pipe from the valve. Price, complete as described **$11.00**

The drain pipe from the trap to the valve is not included in the above price. Nor is the lead supply pipe from the valve to the closet bowl included in this. We will furnish complete all iron pipe threads at, extra..... **$1.50**

For bottom supply tank and an iron supply pipe, for our bargain combination, add Net $0.50

For nickel plated supply pipe, add Net.....$1.00

Bargain Closet Combinations



$9.75

No. 5-A-685.
WATER CLOSET COMBINATION.

Consists of syphon jet porcelain closet bowl (bowl defective in some way but guaranteed as to action), hardwood seat and tank, oak finish, seat for attaching to the bowl. Nickel plated flush pipe, brackets, chain and pull, floor screws, etc. Tank complete with all trimmings. Top supply unless otherwise specified. Price, as described...$9.75

No. 5-A-685.
WATER CLOSET COMBINATION.

Exactly the same as No. 102, except the seat is attached to the wall instead of to the bowl. Price, as described.....$9.25

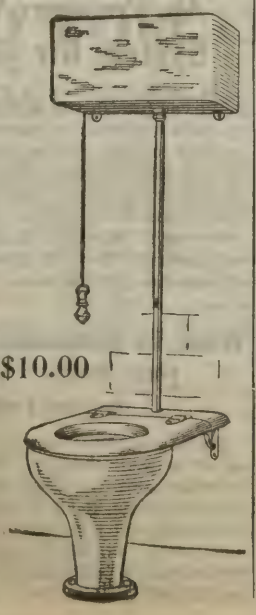
No. 103.
WATER CLOSET COMBINATION

Consists of syphon washdown closet bowl (the bowl defective in some way but guaranteed as to action), with hardwood seat, top supply oak tank, with nickel plated flush pipe and rubber elbow connection, brackets, chain and pull, floor screws, etc. Seat is for attachment to the wall. Price.....$9.00

No. 5-A-681.
WATER CLOSET COMBINATION.

Exactly the same as No. 103 combination except the seat instead of attaching to the wall is attached directly to the bowl, bowl having seat lugs for this purpose. Price.....$9.25

No. 5-A-682.
WATER CLOSET COMBINATION.



$10.00

Consists of square combined hopper and trap bowl, with a square seat for attachment to the wall, with a hardwood tank, nickel plated chain and pull, nickel plated flush pipe with rubber elbow connection. The tank is top supply and the bowl is without trap vent. We furnish this complete with brackets, floor screws, etc. Price.....$10.00

PLUMBERS EARTHENWARE AND ENAMELED IRON HOPPERS, ETC.

5-A-686.
Basin Bowls Vitreous Porcelain Ware. All Brand New.

Cut Showing Common Overflow for Metal Plug.

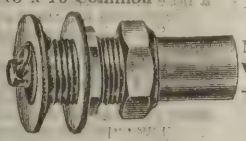
Cut Showing Patent Overflow for Metal Plug.

Cut Showing No Overflow for Metal Plug.

Cut Showing Patent Overflow for Rubber Plug.

BASIN BOWLS.

	1st Grade each	2d Grade each
14 inch No Overflow, Metal Plug	$0.50	$0.40
14 inch Common " " "	.80	.40
14 inch Patent " " "	.65	.50
14 inch Patent " Rubber "	.75	.60
14 x 17 No " Metal "	.95	.75
14 x 17 Common " " "	1.25	1.00
14 x 17 Patent " " "	1.50	1.20
14 x 17 Patent " Rubber "	1.75	1.40
15 x 19 No " Metal "	1.25	1.00
15 x 19 Common " " "	2.00	1.00
15 x 19 Patent Overflow, Metal Plug	$2.00	1.60
15 x 19 Patent " Rubber "	2.25	1.80
16 x 21 No " Metal "	1.90	1.50
16 x 22 No " " "		
"D" shape	3.50	2.80
16 x 21 Patent Overflow, Metal Plug straight back	3.50	2.80
15 x 19 Patent Overflow, Metal Plug straight back	3.00	2.40



METAL PLUGS

New Metal Plugs, with Rubber Stoppers.....Each, 50c

We can furnish anything in the plumbing line you may need.

Syphon Jet Closet Bowls, only $4.25.

5-A-674.

No. 5-A-674—Syphon Jet Closet Bowls with lugs for attaching seat cast right on bowl with 1½" thread for high tank closet. We furnish these bowls in three grades, prices as follows:

First Grade, each.....$10.00
Second Grade, each..... 7.00
Third Grade, each..... 4.25
Above prices do not include seat. If 2" thread for low down tank is desired, add.....25c

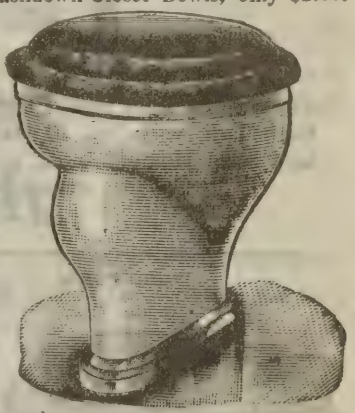
5-A-676. Vitreous Earthware Oval Hoppers, only $2.50.

Tall Oval Earthen Hoppers, First Grade $2.50.

5-A-679. Cast Iron White Enameled Inside Philadelphia Hoppers, only $4.50.

5-A-679—No. 89 Philadelphia Cast Iron Hopper white enamel inside, brand new "A" grade and perfect. Price.....$4.50

Syphon Washdown Closet Bowls, only $2.00.



No. 5-A-675—Syphon Washdown Closet bowls with lugs for attaching seat cast right on bowl with 1½" thread for high tank closet. We furnish these bowls in three grades, prices as follows:

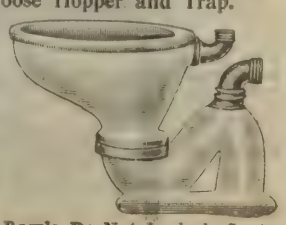
First Grade, each.....$4.50
Second Grade, each..... 3.50
Third Grade, each..... 2.00
Above prices do not include seat. If 2" thread for low down tank is desired, add.....25c

5-A-677, Washout Closet Bowls, only $2.25.

Vitreous Earthenware Front Washout Closet Bowl without lugs for seat attachment. Price:
First Grade, $4.25.
Second Grade, $3.45.
Third Grade, $2.25.

If lugs for seat attached are desired, we can furnish bowl with these cast on back at an additional cost of **25c.** If trap vent is desired on back, we can furnish same at additional cost of **20c.**

5-A-683, Loose Hopper and Trap.

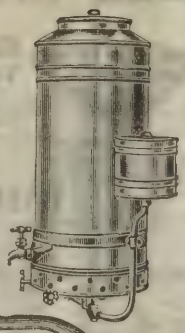


We have on hand 300 brand new, short oval flush rim hoppers, with loose earthen trap.
First Grade.....each, $2.80
Second Grade.....each, $2.50
(Price includes spuds.)

Prices on These Bowls Do Not Include Seats.

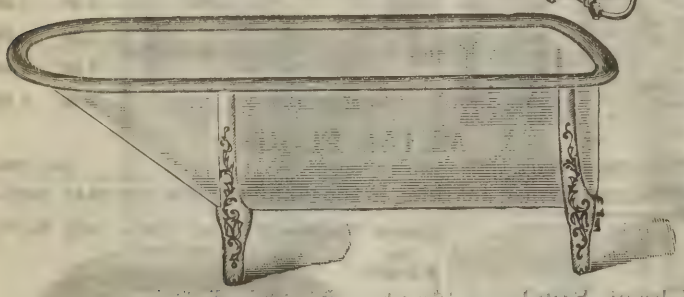
Combination Bath Room Outfit, Only $14.50

THINK OF IT!
All the conveniences of a modern bath room for an investment of only **$14.50**



FIT FOR A KING.

THE CLEVEREST LITTLE COMBINATION ON THE MARKET.
Entirely self contained.
Hot Water always ready just when you want it.
Heats enough water for bath in 10 minutes.
No further expense attached to this outfit, simply set in place, fill the heater with water and it is ready for use. No plumbing whatever.
No range, boiler, stove connection or expensive piping system necessary.
Burns gas, gasoline or oil. Portable, light and easily handled.
Just the Outfit for anyone not wishing to go to undue expense to fit up a bath room.
The waste water can be very easily arranged to run out of doors with a hose connection.
Suitable for the handsomest mansion or the humblest cottage.
The tub is made of 24 gauge galvanized steel, enameled white on the inside and blue outside. Relieved in gold and fully guaranteed.
We also furnish the tub in white metal lining, nickel plated.
All Outfits supplied with 5½ foot Tub, unless otherwise specified.
Our water heater No 10 as shown above is made of 24 gauge galvanized steel with copper coil and heat flue arranged at bottom of heater.
The capacity of heater is about 14 gallons.
We also furnish heater No. 11, same dimensions as No. 10 with white metal, nickel plated jacket on outside. Prices within reach of all.



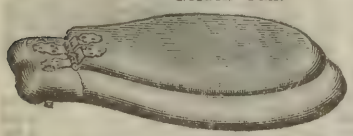
PRICE LIST:

Price, with 5½ Foot Steel Enameled Bath Tub, with No. 10 Galvanized Steel Heater..... **$14.50**

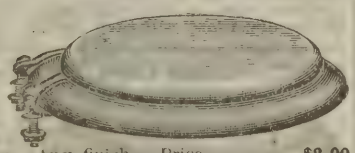
Price, with 5½ Foot Nickel-Plated Bath Tub, with No. 11 Nickel-Plated Heater..... **$17.50**

Chicago House Wrecking Co., Chicago, Ill. Bainbridge, Ohio.
Gentlemen;—We want to write you that we are more than pleased with Combination No. 5, We have the most beautiful home in the vicinity; everything came true to your guarantee.
Mrs. J. R. Head, Bainbridge, Ohio.

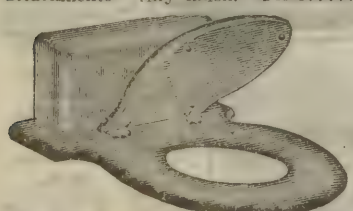
WOODWORK.
All new, nicely polished, Natural, Antique or Golden Oak.



No. 5-A-644. Seat for attaching to bowl. any finish. Price **$1.75**



No. 5-A-645. Seat for attaching to bowl. Nickel plated hinges and attachments Any finish. Price..... **$2.00**



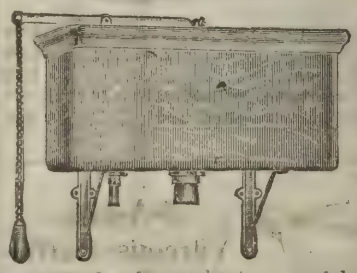
No. 5-A-646. Pedestal seat for attaching to wall. Any finish. Price **$2.25**

No. 5-A-647. Seat, all complete. Square pedestal with legs and frame work. Any finish. Price **$2.50**

Put a Modern Hot Water Heating Plant in Your Home.

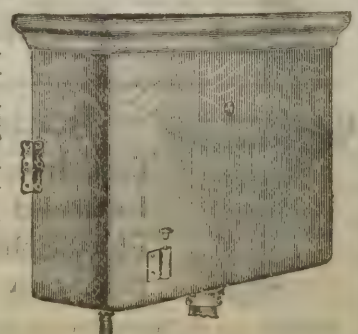
Send us a sketch of your house design. Write for our information blanks. They will tell you the exact information we require to make you a complete proposition, and if you will mail us in these sketches, we can figure out a heating plant for you that we will guarantee to give you absolute satisfaction in every way. We can make you a price on a modern hot water heating system of this kind, that will beat anything that can possibly be secured elsewhere in the country.

Remember, we furnish the highest grade apparatus on the market at any price. We furnish you complete blue print plans and detail instructions covering every point, so that you cannot possibly go wrong and by purchasing this material direct from us, cutting the plumbers profit entirely, as we loan you all necessary tools to install the material, free of charge, you can save anywhere from 30 to 50%. Now is the time to order a heating plant Write at once. Do not delay a moment.



No. 5-A-648. Tank Cop. lined, with moulding, galvanized siphon. Complete with ball cock and all trimmings. Either for top or bottom supply.

Small size for washout or washdown bowls, each..... **$3.50**
Large size for Siphon jet bowls, each..... **4.00**
Extra for lead lined, each..... **0.50**



No. 5-A-649. For low tank combinations. Piano Polish. Round corner, top moulding, copper lined, nickel plated push button action, nickel plated supply pipe and 2 inch connection. Complete with ball cock and all trimmings, each **$8.00**
Extra for lead lined..... **0.75**

Let us make you a complete proposition on a modern Air Pressure Water Supply System for your home.

We can furnish you with the most modern and up-to-date systems in existence. We are fully in position to quote you on practically any size outfit you may require, either gasoline engine or electric motor driven, and every outfit is absolutely guaranteed to give perfect satisfaction in every way. Why not install one of these modern systems? You will have all the convenience of a modern city residence in your country home.

Water in abundance at any point in your house. Absolute protection from fire.

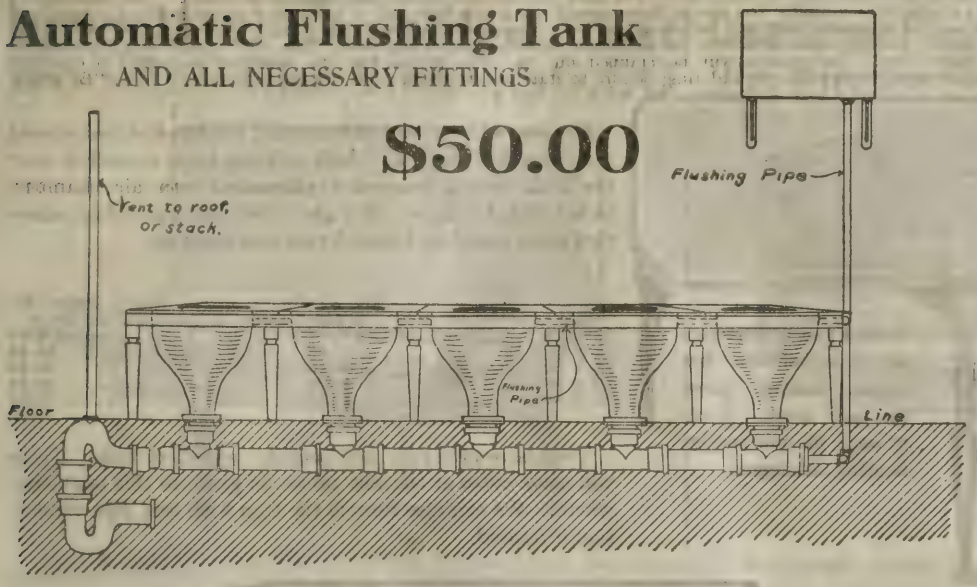
Prices smashed to pieces. We can furnish you an outfit from $48.00 up. Complete plans and instructions sent with every outfit. Write at once for particulars. Send us a sketch of your premises or give us some information in regard to your requirements. We will be glad to line up an outfit for you that we will guarantee to give you absolute satisfaction at a very low price.

CLOSET RANGES

Automatic Flushing Tank

AND ALL NECESSARY FITTINGS

$50.00



No. 5-A-684.

Brand New Closet Ranges for Factories, Schools, etc., exceptional bargains, complete five range outfit, flushing tank, all fittings, brand new seats, only.....**$50.00**

We can furnish these ranges in any number of seats, more or less than shown in the illustration.

Our S. H. 125 Syphon Education Closet Ranges, consists of Brand New Automatic Flushing Tank, copper lined, of 20 or 30 gallon capacity, depending upon the size range you order. These are high grade tanks, lined with extra heavy tinned copper, very substantial. The flushing device is the best on the market They are made up of short porcelain flush rim hoppers with the necessary soil pipe and soil pipe fittings, clamps, calking lead, oakum, flush pipes, traps, etc., with plain square seats and hinged tops. Each seat is furnished with a pair of turned wooden legs to make up as shown in the illustration. Everything complete in this outfit as shown, with the exception of the 2x4" support which will be necessary to hold all seats together. Price for five seat range as described, only.....**$50.00**

If more or less seats are desired, add or deduct $6.00 per seat.

THE FLUSH TANK

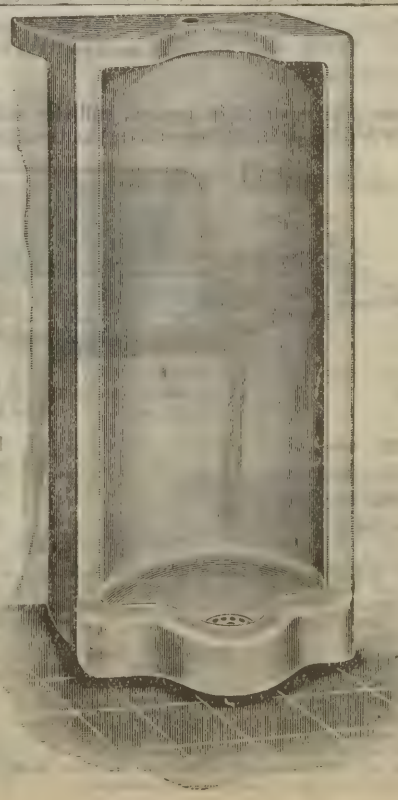
The flush tank on these closets can be connected so that the flush occurs at from every five minutes to an hour. The outfits are so made that part of the water is always retained in the bottom of the hoppers, as will readily be understood by carefully examining the illustration. Note that there is an inverted trap at the end, which maintains a water seal in the entire line of soil pipe underneath the closet bowls, and the connections are so made that part of the water is carried along a 2" flushing pipe in the back of closets to which the connection is made to these closets and part of the water also flows directly into the end of the soil pipe, as shown, causing a very strong flushing action. Connection is made to these bowls with a flexible rubber connection so that any vibration or jarring in the factory on account of heavy machinery, etc. that may be running will not affect the connections and cause them to leak. These flexible joints being permitted and give and take without affecting the connections in any way.

It is understood that we do not furnish the 2x4" scantling on which all seats are supported. This can easily be purchased locally.

This outfit is without any question one of the best outfits you could possibly install in any large factory or school building. It is bound to give you absolute satisfaction. We have sold thousands of these outfits and guarantee results. We have a limited number of these left and it would be well to order as early as possible.

SOLID PORCELAIN URINALS

A MOST WONDERFUL BARGAIN



Elegant and massive in appearance; of the most up-to-date design brought out up to the present time. These Urinals positively sold for as high as $90.00 to $125.00 on the market. While they last we will sacrifice them complete as described at the wonderfully low price of .....**$14.90** each.

This price positively commands your attention. It does not represent one third the actual cost of manufacture. We have got to move this stock; hence the low price.

No. 5-A-685. Genuine solid heavy massive porcelain Urinal complete with nickel-plated Flushing Cock with Detachable Key, Waste Outlet, Strainer and Collar for connection to lead waste pipe. Dimensions 4' 6" high and 30" wide with projecting receptacle base, 6" deep border projecting all around as illustrated, fully 2½" thick, white glazed all over.

In quality, these Urinals are "B" grade. They have some very slight defects in the moulding or glazing. Some have a fire crack at some point or something of that nature, but the defects are slight and all things considered, these fixtures are fully worth four times the price we are asking for them.

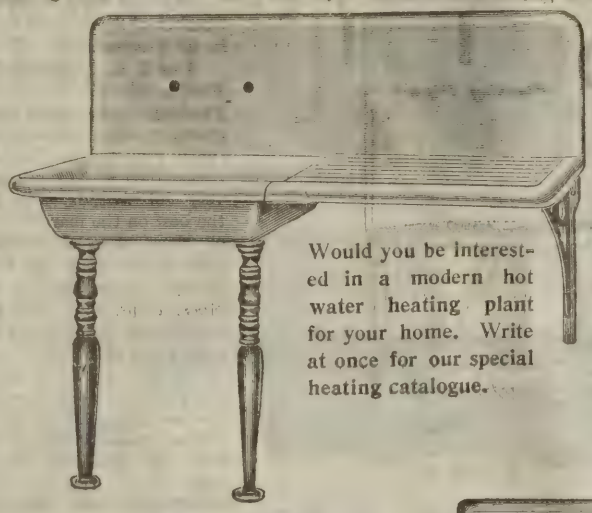
If interested, drop us a line at once. Let us go over the entire stock. We will pick out some exceptionally good one for you and we will submit you a complete detailed description of it by return mail, stating just exactly what and where the defects are so that you will understand fully just what you are buying and if you send us your order we will not hesitate to ship it to you, subject to your inspection on arrival. If it does not come absolutely up to our representation in every way, we will cheerfully refund your money and stand the return freight charges. We represent the goods just as they are and if they are not up to representation, we certainly do not expect you to keep them. Remember we have a limited number only and while they last, only.....**$14.90**

Roll Rim Kitchen Sinks with Drain Boards

Put one of these modern roll-rim sinks in your kitchen. Clean and Sanitary, no enclosed plumbing work. No up-to-date kitchen should be without a sink of this kind. Remember, we can provide all connections with iron pipe threads so that you will not be dependent upon your plumber in the least. You can put the sink in yourself or get some handy mechanic and we will instruct you fully just how the connections should be made. One afternoon's work will do the entire job. Note the low prices at which we can offer you one of these elegant sinks; less than half of what your plumber would charge you. Note that these sinks are all absolutely brand new, having never seen any service whatever. Also note that we can furnish these sinks in "A" or "B" grade sinks. "A" grade sinks are absolutely perfect and free from defects in the enamel or imperfections of any kind. The "B" grade sinks are brand new sinks which have been slightly damaged in shipping. The enamel will be chipped out at some points, but the defective places will be carefully repaired in our enameling room so that it will be scarcely noticeable. In ordering, be sure to state which quality you wish us to ship you, "A" or "B" grade.

Genuine white porcelain enameled roll-rim, long back sink with drain board, legs and brackets, only

$13.24



No. 5-A-577.

Genuine white porcelain enameled roll-rim sink on bronzed cast iron legs with 15" high roll-rim back extended over the drain board, concealed galvanized iron air chamber, nickel-plated strainer, 24" right or left hand porcelain enameled drain board on bronzed cast iron brackets.

Size	Price "A" Grade	Price "B" Grade
18 x 24	$15.24	$13.24
18 x 30	17.88	15.88
20 x 30	16.56	14.56
20 x 36	18.24	16.24
20 x 40	19.68	17.68

The above prices do not include faucets or trap. These will come extra at the net prices as given in this book elsewhere. We can also furnish the trap with iron pipe connection if desired.

Would you be interested in a modern hot water heating plant for your home. Write at once for our special heating catalogue.

Genuine white porcelain enameled roll-rim sink on bronzed legs with 15" high roll-rim back extended over drain board, concealed galvanized iron air chamber, N. P. brass strainer, 24" white porcelain drain board with end pieces.

Size	Price "A" Grade	Price "B" Grade
18 x 24	$16.86	$14.86
18 x 30	18.42	16.42
20 x 30	19.30	17.30
20 x 36	20.02	18.00
20 x 40	21.42	19.40

The above prices do not include faucets or trap. These will come extra at the net prices as given in this book elsewhere. We can also furnish the trap with iron pipe connection if desired.

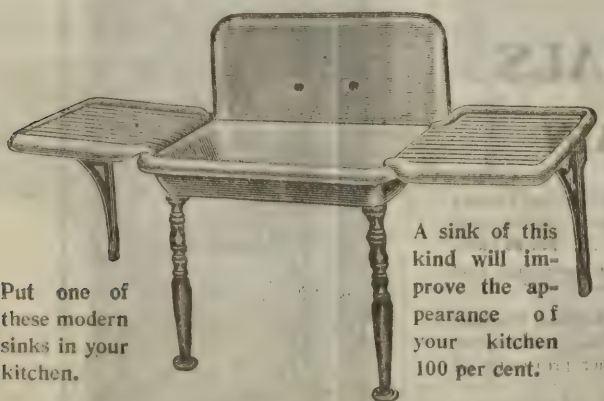
Genuine white porcelain enamel roll-rim sink, double drain boards, ornamental legs and brackets $9.88

Roll-rim kitchen sink with drain board and corner piece

$14.86

Remember we instruct you fully how to install your material. Nothing difficult about it.

Enameled iron long back sink, double drain board $14.68



Put one of these modern sinks in your kitchen.

A sink of this kind will improve the appearance of your kitchen 100 per cent.

We loan you tools.

We make you plans.

No. 5-A-564. Genuine white enameled roll-rim kitchen sinks on bronzed cast iron legs with 15" high back, 2½" deep roll-rim, concealed galvanized iron air chambers, nickel-plated brass strainer, 2 inter-changeable roll-rim ribbed porcelain enameled cast iron drain boards on bronzed heavy cast iron brackets.

Size	Price "A" Grade	Price "B" Grade
18 x 24	$11.88	$ 9.88
18 x 30	12.90	10.90
20 x 30	13.86	11.86
20 x 36	15.06	13.06
20 x 40	15.78	13.78

The above prices do not include faucets or trap. These will come extra at the net prices as given elsewhere in this book. We can also furnish the trap with iron pipe connection if desired.

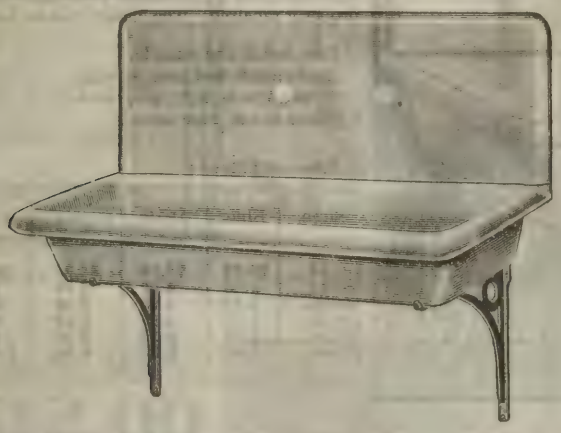
No. 5-A-569. Long back, roll-rim genuine white porcelain enameled sink on bronzed legs, 15" high back, roll-rim back extended over the drain boards, concealed galvanized iron air chamber, 18" ash drain boards on bronzed cast iron brackets.

Size	Price "A" Grade	Price "B" Grade
18 x 30	$16.68	$14.68
18 x 36	17.52	17.56
20 x 30	19.56	15.52
20 x 36	19.38	17.38
20 x 40	19.98	17.98

The above prices do not include faucets or trap. These will come extra at the net prices as given elsewhere in this book. We can also furnish the trap with iron pipe connection if desired.

Cast Iron Enameled Roll Rim Sinks

Porcelain Enameled Cast Iron Roll Rim Sinks, $6.00

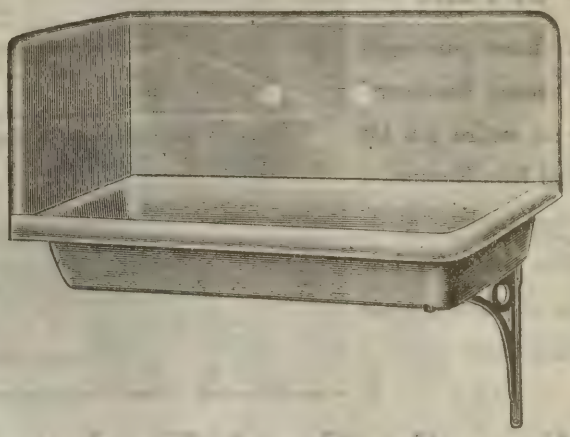


No. 5-A-565. Genuine White Porcelain Enameled Roll Rim Sink, with bronze cast-iron brackets, 15" high back, 2½" inch deep roll rim, with sealed galvanized iron air chambers and nickel-plated brass strainer.

Sizes.	A Grade.	B Grade.
18"x24"	$ 6.00	$4.50
18"x30"	7.02	5.52
18"x36"	7.50	6.00
20"x30"	8.70	7.20
20"x 36"	9.42	7.92
20"x40"	11.14	9.64

The above prices do not include faucet or trap. These will come extra at our regular net price, as given elsewhere in this catalogue.

Cast Iron Porcelain Enameled Roll Rim Kitchen Sinks, with Corner Piece $8.73



No. 5-A-566. Genuine White Porcelain Enameled Roll Rim Sink, with bronze iron brackets, 15" high back, 2½" deep roll rim, right or left hand end piece, sealed galvanized iron air chambers, and nickel-plated brass strainer.

Sizes.	A Grade.	B Grade.
18"x24"	$ 8.73	$7.23
18"x30"	10.07	8.57
18"x36"	9.52	8.02
20"x30"	10.37	8.87
20"x36"	11.40	9.90
20"x40"	12.50	11.00

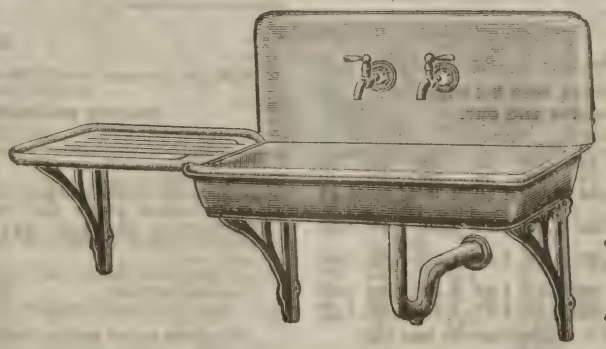
Enameled Iron Roll Rim Sinks with Reversible Drain Boards.

Sink Brackets.

No. 5-A-624. Heavy Cast-iron Sink Brackets. Strong and substantial.

Price, per pair,

30c



Interchangeable Drain Boards, $2.75.

No. 5-A-625. Interchangeable Enameled Iron Drain Board, 18x24, with bronzed cast iron Bracket, only..... $2.75

No. 5-A-627. 20x24, with bronzed cast-iron bracket..... $2.98

WHITE ENAMELED CAST IRON SINK AND DETACHABLE DRAIN BOARD.

Drain Board is Reversible and can be used on Either End.

No. K39. Heavy Roll Rim Sink. Drain Board and Back. The outfit includes a white porcelain enameled cast-iron sink with 15" roll rim enameled iron back and reversible cast-iron enameled grooved drain board. Two heavily nickel-plated Fuller flanged bibbs, for hot and cold water, nickel-plated strainer sink bolts and collar for attaching the trap, and "P" trap, two ornamental cast-iron brackets for the sink, and one for the drain board. The drain board is 24" long, and is made with lugs to bolt securely to the bracket.

Sizes.	Price.	Sizes.	Price.
18"x30"	$12.00	20"x36"	$14.00
18"x36"	13.00	20"x40"	15.00
20"x30"	13.00		

Above Sinks with two ornamental bronzed legs for the sink and one bracket for the drain board. Net extra, $1.00

Write for our Heating Catalog.

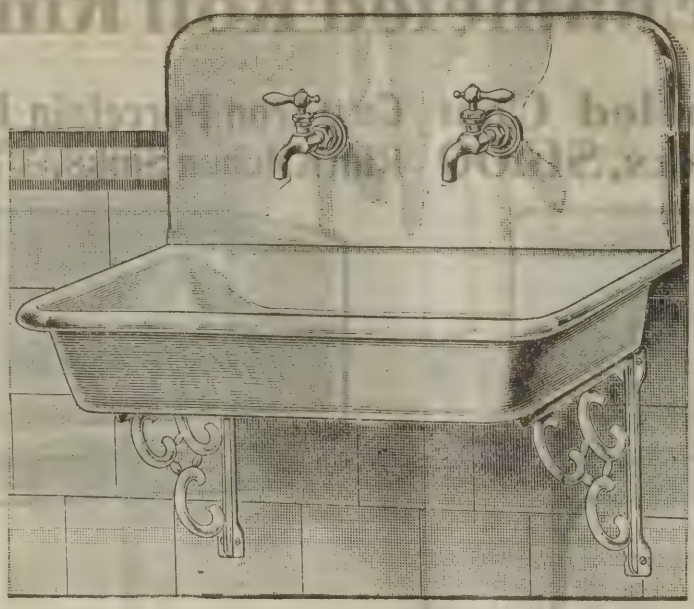
GET OUR SPECIAL HEATING CATALOG. IT'S VALUABLE.

WROUGHT STEEL ENAMELED ROLL RIM SINKS

SPECIAL BARGAIN OFFER

We have purchased at a recent Receivers' Sale an entire job lot of Roll Rim Enameled Kitchen Sinks.

Note the very low prices at which we are offering them.



No. 5-A-572. Wrought Steel Enameled Roll Rim Kitchen Sinks, as shown in illustration, complete with Fuller Flanged Faucets, Ornamental Brackets, Strainer, Trap Collar, Bolts, etc. These sinks are brand new, enameled inside and outside, and are furnished in four different colors of enamel. In quality these sinks are Class B, with some very slight defects, properly repaired. The colors run as follows;

Blue inside and outside.
Agate inside and gray outside.
Crystal inside, light gray outside.
White inside, blue outside.

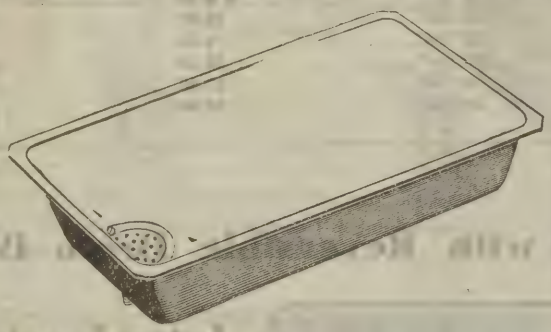
Prices as follows:

Sizes.	Blue.	Agate.	Crystal.	White.
16x24...	$3.75	$4.10	$4.25	$5.10
18x30...	4.20	4.50	4.65	5.50
18x36...	4.65	4.95	5.10	6.00
20x30...	4.65	4.95	5.10	6.00
20x36...	4.85	5.15	5.30	6.30
20x40...	5.50	5.80	5.95	6.95

Wrought Steel Kitchen Sinks, Absolutely New Material.

We purchased three carloads of them at manufacturer's sale. They are unquestionably superior to any cast-iron sink, being stronger, more durable and lighter. They are drawn from a single sheet of steel. They will not break from any cause whatever. Steel being less porous than cast iron, they are more sanitary. Their great elasticity also avoids the danger of breaking dishes. The sinks in this list are all heavily porcelain enameled, both inside and outside, except the galvanized. They are manufacturers' seconds, with some minor blemishes. They are all 6 Inches in depth.

Note the very low price at which we are offering these sinks. Every one an exceptional bargain.



LOT No. 1.

Seamless wrought steel kitchen sinks, with flat edges.
Heavily enameled both inside and out.
All 6 Inches in Depth.

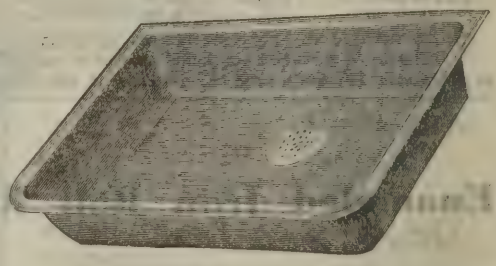
Width, inches	16	18	18	18	20	20	20
Length, inches	24	24	30	36	30	36	40
Blue Enameled inside and out	$0.70	$0.80	$0.90	$1.10	$1.10	$1.23	$1.47
Agate Enameled inside and out, (gray)	.90	1.00	1.10	1.30	1.30	1.43	1.67
Crystal Enameled inside and out (light gray)	.97	1.07	1.17	1.37	1.37	1.50	1.74
White Enameled inside and Blue Enameled outside	1.40	1.50	1.60	1.80	1.80	1.94	2.17
Galvanized inside and outside	.90	1.00	1.17	1.37	1.37	1.50	1.67

The above prices are for sinks, with cast iron couplings for lead pipe.

ADD EXTRA PER SINK:

If ordered for iron pipe connection	each	$0.20
If ordered with rubber stoppers	each	.20
If ordered with rubber stoppers and detachable overflow grates	each	.37

These sinks are just as serviceable in every way as any cast iron sink and they will last just as long.



LOT No. 01

Seamless wrought steel kitchen sinks, with roll edges. (For use with brackets for exposed plumbing.)
Heavily enameled both inside and outside.
All 6 Inches in Depth.

Width, inches	16	18	18	18	20	20	20
Length, inches	24	24	30	36	30	36	40
Blue Enameled inside and out	$0.73	$0.83	$0.93	$1.13	$1.13	$1.27	$1.50
Agate Enameled inside and out (gray)	.93	1.03	1.13	1.33	1.33	1.47	1.70
Crystal Enameled inside and out (light gray)	1.00	1.10	1.20	1.40	1.40	1.53	1.77
White Enameled inside and Blue Enameled outside	1.43	1.53	1.63	1.83	1.83	1.97	2.20
Galvanized inside and outside	.95	1.05	1.20	1.40	1.40	1.53	1.70

The above prices are for sinks, with cast iron couplings for lead pipe.

ADD EXTRA PER SINK:

If ordered for iron pipe connection	each	$0.20
If ordered with rubber stoppers	each	.20
If ordered with rubber stoppers and detachable overflow grates	each	.37

Wrought Steel Sink Backs

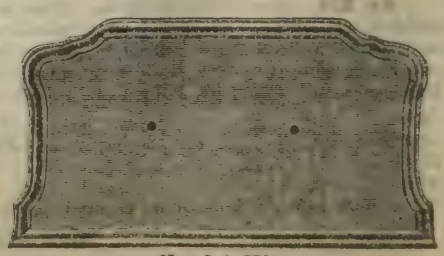
We will furnish Heavy Enameled Seamless Backs for above Sinks, with 1 or 2 cock holes as follows:

Width, inches	20	24	30	36
Blue Enameled	$0.38	$0.44	$0.52	$0.64
Agate Enameled	.40	.46	.54	.67
Crystal Enameled	.44	.50	.58	.70
White Enameled	.50	.60	.70	.83
Galvanized	.45	.50	.58	.70

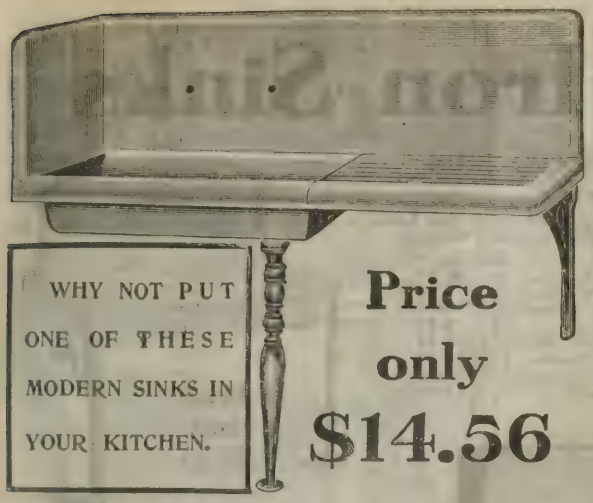
BRACKETS.

We will furnish Cast-iron Brackets for Kitchen Sinks..... Per pair, $0.37

Above sinks offered subject to prior sale. We may be out of certain sizes.



No. 5-A-573



Enameled Iron Roll-Rim Kitchen Silk. Right hand drain board and left hand corner piece, only $14.56

Genuine White Porcelain Enameled Kitchen Sink on bronzed cast iron legs with 15 inch high back, roll-rim back extended over drain board. Left hand end bench, concealed galvanized iron air chambers; N. P. strainer. 2 inch porcelain enameled drain board on bronzed cast iron bracket.

Size	Price "A" Grade	Price "B" Grade
18x24	$16.56	$14.56
18x30	18.12	16.88
20x30	19.00	17.00
20x36	19.68	17.68
20x40	21.12	19.12

Above prices do not include faucets or trap. These will come extra at the net prices as given elsewhere in this book. We can also furnish the trap with iron pipe connections, if desired.

WHITE ENAMELED CAST IRON SINK AND DETACHABLE DRAIN BOARD.

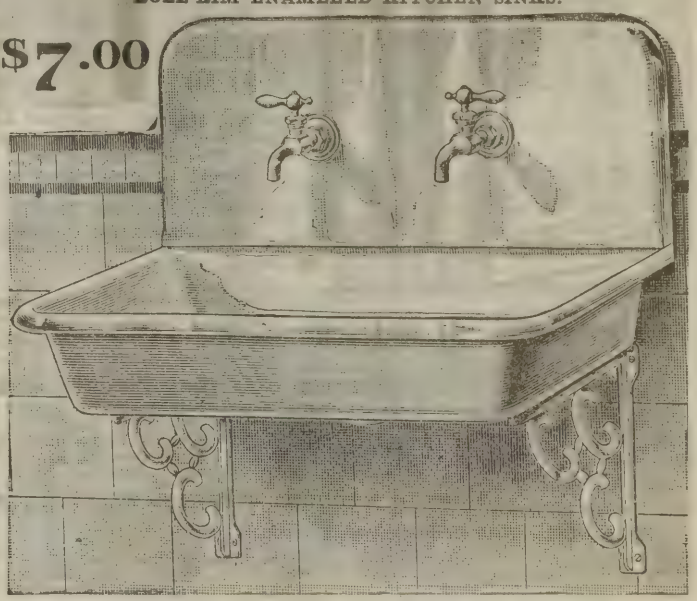
Drain Board is Reversible and Can Be Used on Either End.
No. K39. White Enameled Sink.

No. K39. Heavy roll rim Sink, Drain Board and Back. The outfit includes a white porcelain enameled cast iron sink with 15-inch roll rim enameled iron back and reversible cast iron enameled grooved drain board. Two heavily nickel plated Fuller flanged bibbs for hot and cold water, nickel plated strainer sink bolts and collar for attaching the trap, and "P" trap, two ornamental cast iron brackets for the sink, and one for the drain board. The drain board is 24 inches long, and is made with lugs to bolt securely to the bracket.

Size 18x30	Price $12.00	Size 20x30	Price $13.00
Size 18x36	Price 13.00	Size 20x36	Price 14.00
		Size 20x40	Price 15.00

Above Sinks with two ornamental bronzed legs for the sink and one bracket for the drain board, Net extra 1.00

ROLL-RIM ENAMELED KITCHEN SINKS.

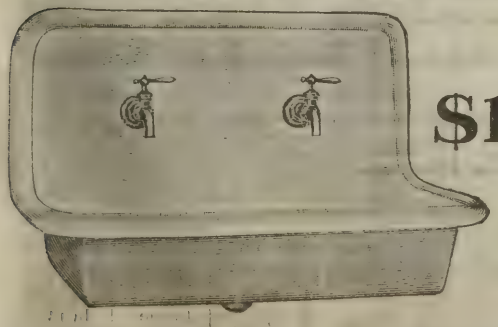


No. 37. Brand New White Enameled Roll-Rim Kitchen Sink with 15-inch back, heavy cast iron pipes and couplings, nickel-plated Fuller bibbs, nickel-plated brass strainer and improved iron brackets. They are class "B" enameled, that is, they have slight imperfections.

Cast Iron White Porcelain Enameled. Heavy Roll Rim.

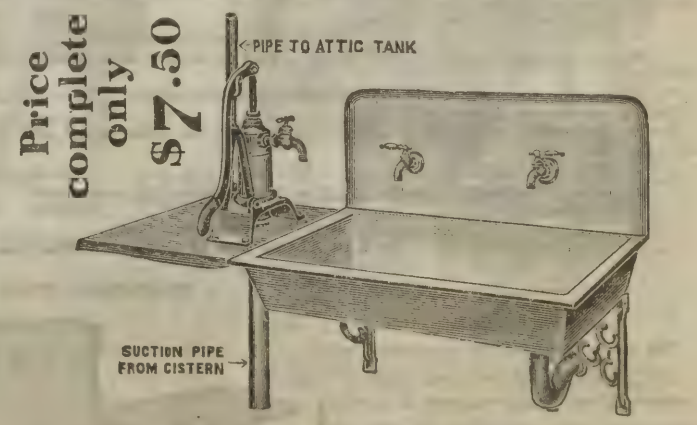
18x24	$ 7.00
18x30	8.00
20x30	9.00
20x36	10.00
20x40	11.00

One piece genuine porcelain enameled cast iron sink only



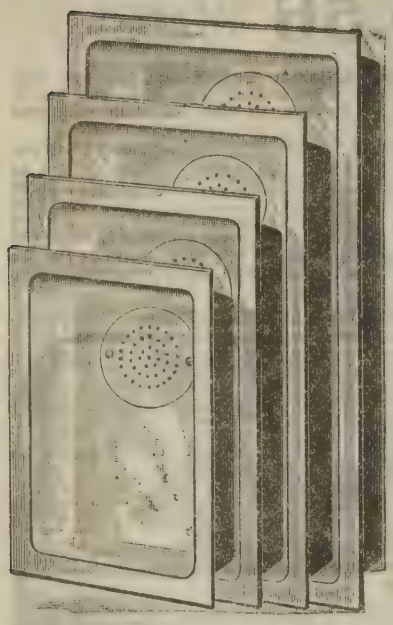
Cast iron enameled roll-rim kitchen sink. Entire back and body of sink cast in one solid piece. This is positively the most sanitary sink ever designed. No seams of any kind in its entire construction. Easy to keep clean, adds greatly to the appearance of your kitchen. We furnish this sink complete with two Nickel-Plated Fuller Flanged Bibbs, and one 1½ inch lead "P" trap to wall or "S" trap to floor.

Size 20x30	$10.00
Size 20x36	13.00



Complete Kitchen Sink Combination, including one of our special solid brass cylinder kitchen force pumps, suitable for drawing water from cistern and pumping it to sink or forcing it up into an attic tank. This sink is one of our 18x30 enameled cast iron flat rim sink with roll-rim cast iron white porcelain enameled back, special Fuller flanged faucets, one long lead "S" trap to floor and one cast iron bracket to support same. Price for this outfit complete as described, only $7.50

Flat Rim Cast Iron Sinks



Flat Rim Sinks $1.50 Each

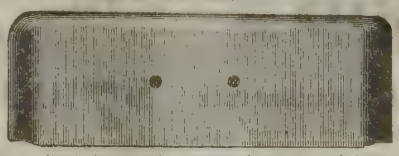
WHITE PORCELAIN ENAMELED IRON KITCHEN SINKS

No. 5-A-580. Furnished with nickel plated strainer, sink bolts and collar for lead trap. B grade very slightly defective in enamel.

Sizes.	Price Each
16x24	$1.50
18x24	1.65
18x30	2.00
18x36	2.25
20x24	2.10
20x30	2.50
20x36	2.60
20x40	3.00

SINK BACKS.

Roll Rim Sink Backs $1.50



No. 5-A-581. Cast iron, roll rim, white porcelain enameled, brand new. Can be used with any style sink Neat, clean and sanitary. Two cock-holes drilled.

Length, 24 inches. Each	$1.50
Length, 30 inches. Each	1.75
Length, 36 inches. Each	2.00

Cast iron porcelain enameled end piece for roll rim sink, with miter corner to match roller and sink back, to bolt holes, corner for fastening.

Length	20 ins.	18 ins.
15 inches high, 2½ inches deep	$2.25	$2.50
12 inches high, 2½ inches deep	2.00	2.25

No. 5-A-584

Consists of enameled steel sink and back, with sink stand made of ¾ inch iron pipe, with fittings to fasten to wall and floor as shown in illustration. This sink stand is very rigid, and absolutely sanitary. The outfit is furnished complete with finished brass Fuller flanged bibbs for hot and cold water, sink strainer, collar and bolts, lead "P" trap to wall, screws, etc.

Prices.

Sizes	Blue.	Agate	White
16x24	$5.25	$5.50	$6.25
18x30	5.50	5.75	6.50
18x36	5.60	5.90	6.75
20x30	5.60	5.90	6.75
20x36	5.75	6.10	7.00
20x40	6.00	6.25	7.25

Price of Sink Stands only as shown above.

For 16x24 sink	$1.25
For 18x24 sink	1.25
For 18x30 sink	1.50
For 20x30 sink	1.60
For 18x36 sink	1.75
For 20x36 sink	1.85
For 20x40 sink	2.00

PAINTED CAST IRON KITCHEN SINKS.

No. K. 42. With strainers, bolts and collars.

Sizes	16x24	18x30	18x36	20x30	20x36	20x40
Price each	$0.75	$1.00	$1.20	$1.20	$1.40	$1.60

PAINTED WROUGHT STEEL SEAMLESS KITCHEN SINKS.

No. 5-A-583. With strainers, bolts and collars.

Sizes	16x24	18x30	18x36	20x30	20x36	20x40
Price, each	50c	60c	75c	75c	75c	$1.00

MISCELLANEOUS SINK BARGAINS.

We have in stock at this time a lot of Sinks from Underwriters' Sale that are considerably chipped. The castings are perfect but more or less of the enamel has been chipped on these sinks around the rim and sometimes around the outlet in the bottom. Or, there may be some sinks with the enamel practically perfect but with a corner of the rim broken off. They are all guaranteed not to leak. These sinks would be furnished with nickel plated strainer, sink bolts and collar.

We offer them in the following sizes: Lot No. D1.

18x24	$1.10	20x24	$1.40
18x30	1.25	20x30	1.50
18x36	1.40	20x36	1.75

We have in this same lot of material some Roll Rim Sinks and backs. Their condition is about the same as described for the Flat Rim Sinks above. We offer these as follows: Lot No. D2.

18x30 with back and brackets	$5.00
20x30 with back and brackets	$6.00
20x36 with back and brackets	$7.00

We will furnish with the above Sinks a pair of brass Fuller bibbs for iron pipe, and 1¼ inch lead "P" Trap for $1.50 when ordered in connection with sink.

We have in these same lots some Enameled Drain-boards. These are interchangeable and can be hung over either end of the sink. They will fit either flat or roll rim sinks.

We are offering with these a bracket to support the drain-board, and a clamp to fasten the drain-board to the edge of the sink. We offer these at: Lot No. D3:

18" wide by 24" long	$1.75
20" wide by 24" long	$2.00

We have in the same lot some Roll Rim White Enamel Kitchen Backs. They are generally damaged about as described above. Lot No. D4.

24 inches long	$0.75
30 inches long	$1.00
36 inches long	$1.25

The Above Lot of Defective Material is Offered Subject to Prior Sale.

ENAMELED STEEL PANTRY SINK.

No. 5-A-582.

The above Pantry Sink is equipped with a plug strainer and can be filled with water and the dishes washed in the sink itself, and then the water let out. We furnish the sink, the N. P. bibbs for hot and cold water, the sink back, two pairs of brackets, and the lead trap. We do not furnish the wooden frame or drain-boards.

Price outfit complete as listed above.

Size.	White Inside, Blue Outside.	Gray Enameled Inside and Outside.	Blue Enameled Inside and Outside.
14x20	$6.00	$5.50	$5.25
16x20	6.50	6.00	5.75
16x24	6.75	6.25	6.00
18x24	7.00	6.50	6.25
18x30	7.50	7.00	6.75
18x36	8.00	7.50	7.25

Solid Porcelain Kitchen Sink.

$15.00

Solid porcelain kitchen sink with loose back and solid porcelain legs, complete with fitting.
Price, only $15.00

No. 5-A-672. Genuine solid porcelain two-piece kitchen sink with two solid porcelain legs, complete with ideal lifting waste and two compression semi-low-down basin cocks with china indexes, marked hot and cold, complete with nickel plated "P" traps to wall and nickel plated supply pipes with wall flanges, etc.
In quality these sinks are "B" grade. We have a very limited number left and it is well to order as early as possible. Write for complete detailed description. These sinks come in two sizes:

Size 24x22", complete as described, only .. $15.00
Size 27x24", complete as described, only .. $16.50

Genuine porcelain flat rim laundry trays, absolutely indestructible. These trays will last you a life-time.

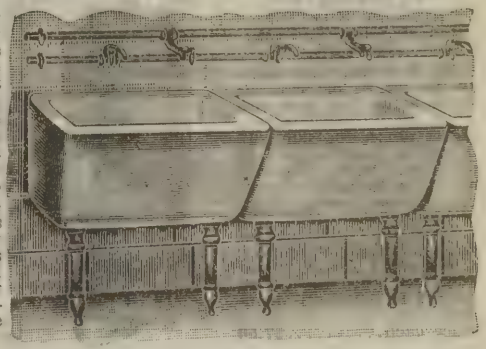
Price, each, only $7.00

Solid Porcelain Laundry Tubs

$7.00

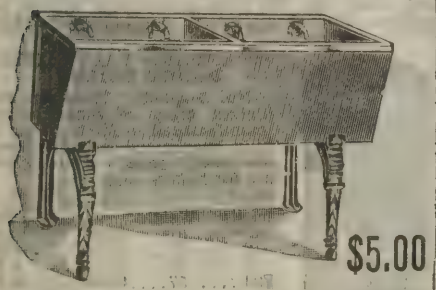
No. 5-A-673. These laundry tubs are positively the most substantial and durable make of laundry tubs on the market at the present time. This is a lot of tubs purchased at a recent receivers' sale and the prices that we are offering them does not represent half their actual value.
In quality these tubs are "B" grade with some very slight defect. They are white glazed inside and buff color outside. Size of tubs, 24x24 and 16" deep inside.

If you want a good substantial tub for your laundry, here is the chance. Get two or three of these tubs, set them up in a battery, as shown in the illustration. They can be readily equipped with wooden covers and hinges as shown. While we do not furnish these wood trimmings, it can be very easily rigged up after you get them in place. The accompanying illustration shows two methods of connecting these tubs up, each of which is very good.



We can furnish the tubs with either ornamental galvanized iron legs as shown in the cut on the right hand side, or we can furnish them with round cast iron legs, as shown above, whichever you desire. Each tub is fitted with waste plug and rubber stopper and one pair of flanged laundry tray faucets. Price for each tub as described, while they last, only ..... $ 7.00
Price for two-part tub as described, only 13.00
We also have several laundry tubs similar to the above, white glazed both inside and out, which we will sacrifice while they last at only $10.00 per tub. These white glazed tubs are also "B" grade in quality. Write for detailed description if interested. We know you will be well satisfied.

COMPOSITION STONEWARE LAUNDRY TUBS.
(Single, with 6 Inch High Back.)



$5.00

No. 5-A-281. All in one piece and furnished complete with patent zinc rims, brass plugs, strainer, overflows, waste connection and painted iron legs. Faucets are not included.

Length Inches	Width Inches	Depth Inches	Price Each
25	24	16	$5.00
27	24	16	5.35
31	24	16	5.90

Flanged Faucets for Laundry Tubs, for ¾ inch Iron pipe ..... .55

COMPOSITION STONEWARE LAUNDRY TUBS.
(2 Parts Without High Back.)

No. 5-A-282. These are furnished with zinc rims, brass plugs, strainer, overflow, waste connection, painted iron legs. Faucets not included.

Length Inches	Width Inches	Depth Inches	Price Each
48	24	16	$5.70
54	24	16	6.50
60	24	16	7.95

Flanged Faucets for Laundry Tubs, for ¾ inch Iron pipe ..... .55

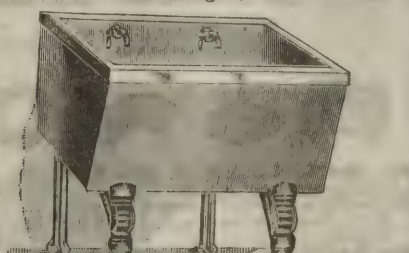
COMPOSITION STONEWARE LAUNDRY TUBS.
(2 Parts with 6 Inch High Back.)

No. 5-A-283. These are furnished with zinc rims, brass plugs, strainer, overflow, waste connection, painted iron legs. Faucets not included.

Length Inches	Width Inches	Depth Inches	Price Each
48	24	16	$ 8.40
54	24	16	9.75
60	24	16	10.50

Flanged Faucets for Laundry Tubs, for ¾ inch Iron pipe ..... .55

COMPOSITION STONEWARE LAUNDRY TUBS (Single.)



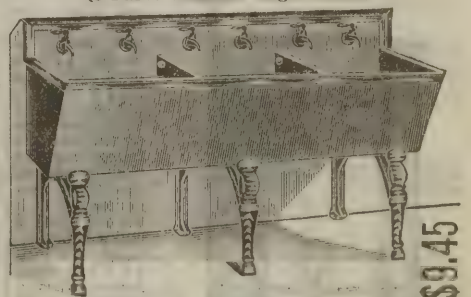
$3.90

No. 5-A-280. These tubs are made of a composition of the very best grade of Portland Cement and Crushed Granite, and are moulded and made into one solid piece, with round corners, making them perfectly sanitary and easy to keep clean. They are stronger and harder than those made from stone. The strainers, plugs and waste connections are cast in the tub, doing away entirely with leaky connections. Each tub has a zinc rim, brass plug and waste connection and furnished complete with painted iron legs. Faucets are not included.

Length Inches	Width Inches	Depth Inches	Price Each
25	24	16	$3.90
27	24	16	4.40
31	24	16	5.00

Flanged Faucets for Laundry tubs, for ¾ inch Iron pipe ..... .55

COMPOSITION STONEWARE LAUNDRY TUBS.
(3 Parts without High Back.)



$9.45

No. 5-A-284. These are furnished with zinc rims, brass plugs, strainer, overflow, waste connection, painted iron legs. Faucets not included.

Length Inches	Width Inches	Depth Inches	Price Each
72	24	16	$ 9.45
80	24	16	10.65
90	24	16	11.25

Flanged Faucets for Laundry Tubs for ¾ inch Iron pipe ..... .55

COMPOSITION STONEWARE LAUNDRY TUBS. (3 Parts with 6 Inch High Back.)

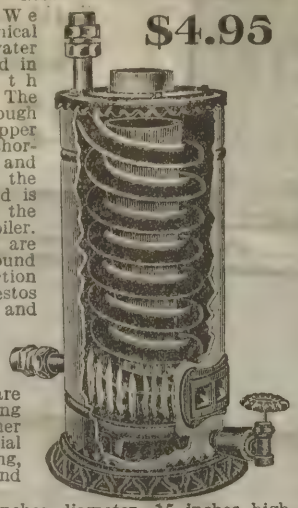
No. 5-A-285. These are furnished complete as above.

Length Inches	Width Inches	Depth Inches	Price Each
72	24	16	$12.25
80	24	16	14.60
90	24	16	16.00

Flanged Faucets for Laundry Tubs for ¾ inch Iron pipe ..... .55

"PREMIER" GAS WATER HEATER.

$4.95

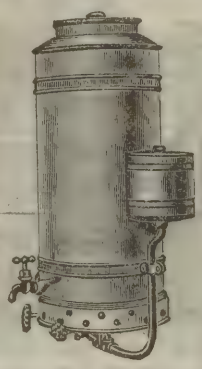


No. 5-A-266. We offer an economical and efficient gas water heater to be used in connection with Range boilers. The water passing through a drawn, coiled copper tube, becomes thoroughly heated and passes through the top of heater and is discharged into the top of the boiler. These heaters are fitted with a ground joint brass connection and conical asbestos covered deflector, and lined with asbestos, which holds the heat around the coil. These Heaters are made for heating water with either natural or artificial gas. In ordering, please state the kind of gas used.

Heater is 18 inches diameter, 15 inches high, ¾-inch tube, and can be connected to 30 to 40 gallon boiler to supply hot water to sink, bathroom, lavatory and laundry.

Price furnished with planished iron jacket...**$4.95**

"PERFECTION" NICKEL PLATED GASOLINE WATER HEATER.



No. 5-A-264. This Heater is made of No. 24 gauge galvanized iron with white metal nickel plated jacket on the outside. 12 inches in diameter and 28 inches high. Capacity about 14 gallons. Copper coil and heat flues arranged at bottom of heater. Will heat water sufficient for bath in about 15 minutes.

Shipping weight about 40 lbs. Shipped direct from factory in Southern Michigan.

Price each.....**$7.50**

GASOLINE WATER HEATER.

$12.50

No. 5-A-264½. is a Galvanized Iron Heater with double burner and circulating copper coil. Reservior holds 15 gallons of water and is so arranged that when the burners are lighted the water circulates through the coil and over the burners and as it is heated rises back into the reservoir above. The water is drawn off through the faucet and as the faucet is directly connected with the heating coil it is practically an instantaneous heater. It is so made that all the water cannot be drawn out and consequently the coil and the bottom cannot be burned out. Will heat the full reservoir of 15 gallons boiling hot in about 20 minutes. Price crated for shipment.....**$12.50**

Your opportunity to buy THE BEST at a price usually asked for inferior goods.

INSTANTANEOUS WATER HEATER.

(For Gas.)

$24

No. 5-A-273. It is the most simple and perfectly constructed heater of its kind ever produced, and has a larger heating surface, in proportion to its dimensions, than any other heater of similar character of construction. The result is obtained by allowing the ascending high products of combustion of the gas to mingle with the downward going water, thereby extracting all the heat from the gas and there is no waste of heat as the products of combustion leave the heater cold. This heater can be connected direct to your water supply and will heat two or three gallons per minute to a temperature of 100 degrees. The jacket is made of sheet copper, heavily nickel plated and highly polished.

Dimensions.

Diameter .....11 inches
Height .....28 inches
Shipping Weight .....65 lbs.

Furnished complete with nickel plated shelf and brackets, safety pilot lock, one outlet, valves and unions. Price each.....**$24.00**

When ordering be sure and state whether heater is for artificial or natural gas.

INSTANTANEOUS WATER HEATER To be Used With Gasoline.

No. 5-A-274. This heater is designed to connect direct to your water supply, and is of the same general construction as the above heater.

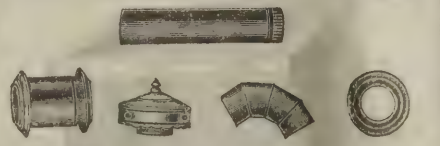
Dimensions.

Diameter .....12 inches
Height .....21 inches
Shipping Weight .....60 lbs.

Capacity 1½ to 2 gallons per minute to a temperature of 100 degrees.

Price with nickel plated shelf, brackets, etc.**$28.75**

FITTINGS TO BE USED IN CONNECTION WITH INSTANTANEOUS HEATERS.



No. 5A-275. 3 inch N. P. Vent Pipe in 28 inch lengths, per length.....**$0.50**
No. 5-A-276. Inch Extension Thimble with N. P. flanges on each end, 4 to 8 inch Extension **1.20**
No. 5-A-277. 3 inch N. P. Elbows.....**.50**
No. 5-A-278. 3 inch N. P. Vent Pipe Collars. **.35**
No. 5-A-279. 3 inch Ventilating Hood of galvanized iron, to be used where vent pipe terminates outside to prevent down draft, each **1.00**

RANGE BOILER COUPLINGS.

(Galvanized.)

No. 5-A-271. For Iron Pipe Connections.
Price per set **$0.65**

RANGE BOILER COUPLINGS.

(Brass.)

No. 5-A-272. For Lead Pipe Connections.
Price per set **$1.00**

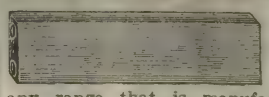
GALVANIZED STANDARD RANGE BOILER.

With Stand, Tube and Couplings.

No. 5-A-268. These boilers are fully guaranteed. There is absolutely nothing better manufactured. The rivets are closely spaced. Every boiler fully guaranteed.

Capacity Gallons	Height Inches	Weight lbs.	Price with galvanized couplings for iron pipe
24	48	67	$ 5.75
30	60	82	5.75
35	60	87	6.25
40	60	96	6.95
52	60	137	12.00
63	72	166	17.75

If couplings for lead pipe connections are required there will be an additional charge of.....**$0.25**



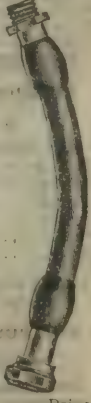
WATER FRONTS.

No. 5-A-263. We can furnish water fronts for almost any range that is manufactured. Most every range that is now manufactured has water fronts, but some of the old style ranges are made without water fronts and it is occasionally impossible for us to secure the front for these. The water front is used in connection with the range boiler. The water circulates through the pipes into the water front, which is fitted in the fire box of the range, and as it becomes heated it passes back into the range boiler, the constant circulation keeping the water in the boiler hot. The illustration shown is a cut of the water front used in most of the steel ranges without reservoirs. When ordering be sure and state name of stove, by whom it is manufactured and mention all numbers that show on the stove. Without this information we cannot furnish the fronts. On some makes of stoves and ranges the connections are made for both right or left hand. In ordering be sure and state which hand, and this can be determined by facing the range. If the holes for the water front are on the right hand side right hand connections are required; if on the left hand side, left hand connections will be required. Price each.....**$5.00**

STANDARD GALVANIZED RANGE BOILERS.

No. 5-A-267. These are the highest grade of range boilers manufactured. Each boiler is fully guaranteed and the rivets are closely spaced. Prices given are for boilers only.

Capacity Gallons	Weight lbs.	Size	Price Each
12	37	3'x10"	$4.30
18	47	3'x12"	4.75
24	57	4'x12"	4.75
30	72	5'x12"	4.75
35	76	5'x13"	5.10
40	85	5'x14"	5.80
52	119	5'x16"	10.35
63	146	6'x16"	16.20
82	192	5'x20"	18.25
100	200	5'x22"	27.00



LEAD PIPE CONNECTIONS FROM BOILER TO RANGE.

No. 5-A-269. By using lead pipe boiler connections the job of connecting a range to boiler is much simplified, that is one long flow from bottom of boiler to lower opening of water front, and one from upper opening in water front to opening in the side of the boiler. The lead pipe will easily bend and the balance of the distance can be filled with ¾ inch iron pipe.

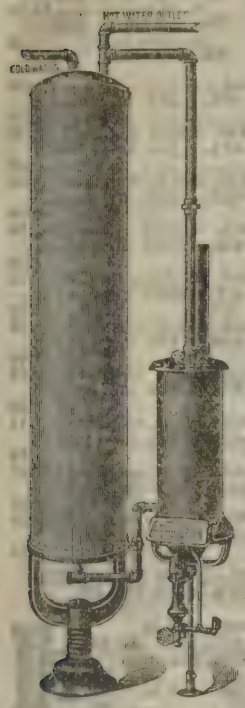
Price per set of 2.....**$2.00**

STANDS FOR RANGE BOILERS

No. 5-A-270. Made of the best quality gray cast iron, strongest and best boiler stand manufactured.

Diameter Inches	Price Each
12	$0.45
13	.46
14	.47
16	1.10
20	1.20
22	1.65

Reliable Circulating Gas Water Heaters



Our Reliable Gas Circulating Water Heater and Gasoline Heater we consider the best on the market. We do not claim that they are the cheapest but that they are absolutely the best. They can be connected to any kitchen range boiler as shown in the cuts on this page without interfering with the present kitchen range or furnace connections. The floor space they occupy is only eight inches in diameter. They are available for heating water instantly day or night and the advantage of this kind of heater is that it puts the hot water right in your circulating pipe and the water is available in the bath tub, lavatory, on the kitchen sink or in the laundry tubs.

The cost of operation is very slight. The heaters are made with alternating solid sections and rings as you will note in the sectional view, so arranged that water constantly flows from the circumference to the center, from the center to the circumference, and back to the center again, as it works its way from the bottom to the top of the heater.

The No. 9 and No. 10 have polished steel casings. The No. 7 and No. 8 have cast iron casings. These casings are so arranged that nearly all heat is kept in the heater. The cast iron has no particular advantage for heating qualities but is, perhaps, a little more endurable.

The burner is a very powerful heat producer. It has a removable loose cone so that it can be easily and thoroughly cleaned. It is also fitted with an adjustable valve enabling the simple regulation of burner for any pressure of gas.

We furnish these for either natural or manufactured gas. The casing around the coil is removable so that it is a very easy matter to clean the coil thoroughly.

Reliable Gas Circulating Water Heaters

SIZES

Water Heater with Polished Steel Casings

Manufactured Gas	Natural Gas	Height of Heater	Diameter Casings	Price
No. 5-A-628.	**No. 5-A-629.**	22½ in.	8 in.	**$10.00**

Water Heater with Cast Iron Casings

Manufactured Gas	Natural Gas	Height of Heater	Diameter Casings	Price
No. 5-A-630.	**No. 5-A-631.**	20½ in.	7½ in.	**$12.00**

Reliable Circulating Gasoline Water Heaters

These heaters are made exactly like the gas heaters except that they are equipped with a tank for gasoline and arranged with the best known type of gasoline vapor burner. A test with a 30 gallon boiler filled with water at 50 degrees, gave the following results:

12 minutes raised to 164°
30 " " " 184°
45 " " " 200°
60 " " " 218°

The gasoline heaters are made with the polished steel casings only.

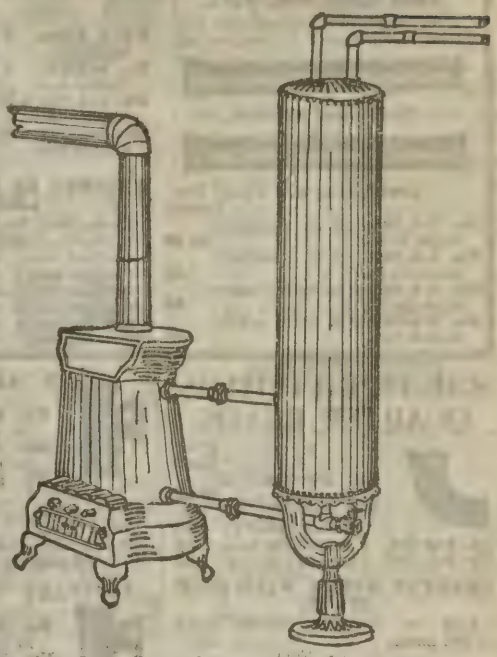
No.	Height of Heater	Dia. of Steel Casing	Price
5-A-632.	23"	7½"	**$18.75**

These heaters are not to be confused with the nickel plated instantaneous heaters which produce boiling hot water as fast as it flows through the heater.

Air Pressure Water Supply Systems for Country Homes.

Tank Heaters

We illustrate here our New Tank Heater with square top so that irons or wash boiler can be placed thereon. It has the latest style revolving grate, and is the best low priced Tank Heater made today. The water jacket is made in one casting, is heavy, and will stand any water pressure up to 100 or 125 lbs. These Heaters are shipped direct from our foundry in Western Pennsylvania. They can be used with vertical range boilers, as we show in the above illustration, or they can be used with tanks that are placed horizontally. The largest sizes are almost invariably used with horizontal tanks. The No. 17 size Tank Heater can be used in connection with a 400 or 500 gallon tank. It will heat about 250 gallons of water per hour, and in hotels where sometimes as much as 500 gallons of water is used in a single hour; if one of these heaters is used, it will store up that much hot water for the time when it is needed. We will quote you on large sizes of Tank Heaters on application.



Dimensions and Prices of Heaters

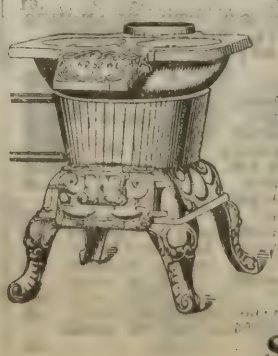
Following Prices Are for Heaters Only

No.	Size of Top for Irons	Diam. of Fire Pot	Size of Tapping	Depth of Fire Pot	Gallons Capacity	Price
5-A-633	14x24	10 in.	1 in.	10 in.	50 to 75	$17.50

No.	Size of Fire Pot	Depth of Fire Pot	Size of Smoke Pipe	Tank Cap. Gallons	Size of Tapping	Price
5-A-634	10	11	6 in.	100	1 in.	$20.00
5-A-635	10	13	6 in.	125	1 in.	22.50
5-A-636	13	12	7 in.	150	1¼ in.	25.00
5-A-637	13	15	7 in.	200	1¼ in.	27.50
5-A-638	13	18	7 in.	250	1¼ in.	33.00

Rex Jewel Water Heating Laundry Stove

No. 5-A-639.



This is a very low price Laundry Stove Tank Heater.

It will heat a 40-gallon range boiler, and we recommend it where it is desirable to use a coal stove for heating water for laundry purposes, and is especially desirable in connection with a gas range. It has a flat top 14x21 inches. It is large enough for a 9-inch wash boiler, and will burn hard or soft coal or coke. Has revolving grate.

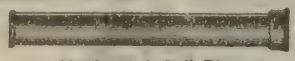
Price, complete with shaker and stove lifter

$12.00

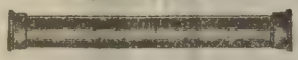
SOIL PIPE AND FITTINGS.

CAST IRON SOIL PIPE.

Every length tested and fully guaranteed. Comes in 5 ft. lengths only.



Single Hub Soil Pipe.



Double Hub Soil Pipe.

	Per Length
No. 5-A-286. 2 in. standard, single hub	$0.50
No. 5-A-287. 2 in. standard, double hub	.62
No. 5-A-288. 2 in. extra heavy, single hub	.60
No. 5-A-289. 2 in. extra heavy, double hub	.70
No. 5-A-290. 4 in. standard, single hub	$0.80
No. 5-A-291. 4 in. standard, double hub	.95
No. 5-A-292. 4 in. extra heavy, single hub	1.25
No. 5-A-293. 4 in. extra heavy, double hub	1.35

WEIGHTS OF SOIL PIPE PER LENGTH.

2 in. standard, single hub	17½ lbs
2 in. standard, double hub	18 lbs
2 in. extra heavy, single hub	27½ lbs
2 in. extra heavy, double hub	28½ lbs
4 in. standard, single hub	32½ lbs
4 in. standard, double hub	34 lbs
4 in. extra heavy, single hub	65 lbs
4 in. extra heavy, double hub	68 lbs

SOIL PIPE FITTINGS. QUARTER BENDS.

Price Each

No. 5-A-294. 2 in. standard $0.09
No. 5-A-295. 2 in. extra heavy .14
No. 5-A-296. 4 in. standard .21
No. 5-A-297. 4 in. extra heavy .27

QUARTER BENDS WITH SIDE INLET.

Can be furnished either right or left hand.

Each

No. 5-A-298. 4 in. standard with 2 in. inlet $0.40
No. 5-A-299. 4 in. extra heavy, with 2 in. inlet .48

Illustration shows right side inlet.

QUARTER BENDS WITH HEEL INLET.

Each

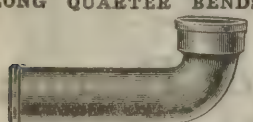
No. 5-A-300. 2 in. standard, with 2 in. inlet $0.30
No. 5-A-301. 2 in. extra heavy, with 2 in. inlet .33
No. 5-A-302. 4 in. standard, with 2 in. inlet .40
No. 5-A-303. 4 in. extra heavy, with 2 in. inlet .46

QUARTER BENDS—DOUBLE HUB.

Each

No. 5-A-304. 2 in. standard $0.15
No. 5-A-305. 2 in. extra heavy .17
No. 5-A-306. 4 in. standard .27
No. 5-A-307. 4 in. extra heavy .33

LONG QUARTER BENDS.



Each

No. 5-A-308. 2x14 in. long standard $0.30
No. 5-A-309. 2x14 in. long, extra heavy .42
No. 5-A-310. 4x18 in. long, standard .58
No. 5-A-311. 4x18 in. long, extra heavy .85

SIXTH BEND.

Each

No. 5-A-312. 2 in. standard $0.09
No. 5-A-313. 2 in. extra heavy .14
No. 5-A-314. 4 in. standard .21
No. 5-A-315. 4 in. extra heavy .27

EIGHTH BEND.

Each

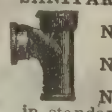
No. 5-A-316. 2 in. standard $0.09
No. 5-A-317. 2 in. extra heavy .14
No. 5-A-318. 4 in. standard .21
No. 5-A-319. 4 in. extra heavy .27

"T" BRANCHES.

Each

No. 5-A-320. 2x2 in. standard $0.15
No. 5-A-321. 2x2 in. extra heavy .21
No. 5-A-322. 4x2 in. standard .37
No. 5-A-323. 4x2 in. extra heavy .50
No. 5-A-324. 4x4 in. standard .37
No. 5-A-325. 4x4 in. extra heavy .50

SANITARY "T" BRANCHES.



Each

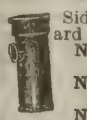
No. 5-A-326. 2x2 in. standard $0.15
No. 5-A-327. 2x2 in. extra heavy .21
No. 5-A-328. 4x2 in. standard .37
No. 5-A-329. 4x2 in. extra heavy .50
No. 5-A-330. 4x4 in. standard .37
No. 5-A-331. 4x4 in. extra heavy .50

SANITARY "T" BRANCHES WITH SIDE INLET.

No. 5-A-332. 4 x 2 in. with 2 in. inlet. Standard $0.57
No. 5-A-333. 4 x 2 in. with 2 in. inlet. Extra heavy .72
No. 5-A-334. 4x4 in. with 2 in. inlet. Standard .57
No. 5-A-335. 4x4 in. with 2 in. inlet. Extra heavy .72

These fittings made with inlet on either right or left side. Illustration shows left hand inlet.

"T" BRANCHES.



Side opening tapped for standard pipe. Each

No. 5-A-336. 2x1½ in. standard $0.32
No. 5-A-337. 2x1½ in. extra heavy .37
No. 5-A 338. 2x2 in. standard .32
No. 5-A-339. 2x2 in. extra heavy .37
No. 5-A-340. 4x1½ in. standard .46
No. 5-A-341. 4x1½ in. extra heavy .61
No. 5-A-342. 4x1½ in. standard .46
No. 5-A-343. 4x1½ in. extra heavy .61
No. 5-A-344. 4x2 in. standard .46
No. 5-A-345. 4x2 in. extra heavy .61

SANITARY "T" BRANCHES WITH SIDE OPENINGS TAPPED FOR STANDARD PIPE.

Each

No. 5-A-346. 2x1½ in. standard $0.30
No. 5-A-347. 2x1½ in. extra heavy .37
No. 5-A-348. 2x2 in. standard .30
No. 5-A-349. 2x2 in. extra heavy .37
No. 5-A-350. 4x1½ in. standard .46
No. 5-A-351. 4x1½ extra heavy .61
No. 5-A-352. 4x1½ in. standard .46
No. 5-A-353. 4x1½ in. extra heavy .61
No. 5-A-354. 4x2 in. standard .46
No. 5-A-355. 4x2 in. extra heavy .61

"T" BRANCHES WITH HAND HOLE FOR CLEAN OUT.

Each

No. 5-A-356. 2 in. standard $0.30
No. 5-A-357. 2 in. extra heavy .37
No. 5-A-358. 4 in. standard .52
No. 5-A-359. 4 in. extra heavy .65

CROSSES.

Each

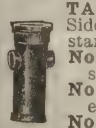
No. 5-A-360. 2x2 in. standard $0.30
No. 5-A-361. 2x2 in. extra heavy .42
No. 5-A-362. 4x4 in. standard .55
No. 5-A-363. 4x4 in. extra heavy .75

SANITARY CROSSES.

Each

No. 5-A-364. 2x2 in. standard $0.30
No. 5-A-365. 2x2 in. extra heavy .42
No. 5-A-366. 4x2 in. standard .56
No. 5-A-367. 4x2 in. extra heavy .67
No. 5-A-368. 4x4 in. standard .56
No. 5-A-369. 4x4 in. extra heavy .67

TAPPED CROSSES.



Side opening tapped for standard iron pipe. Each

No. 5-A-370. 2x1¼ in. standard $0.50
No. 5-A-371. 2x1¼ in. extra heavy .65
No. 5-A-372. 2x1½ in. standard .50
No. 5-A-373. 2x1½ in. standard .65
No. 5-A-374. 2x2 in. standard .50
No. 5-A-375. 2x2 in. extra heavy .65
No. 5-A-376. 4x1½ in. standard .72
No. 5-A-377. 4x1½ in. extra heavy .95
No. 5-A-378. 4x1½ in. standard .72
No. 5-A-379. 4x1½ in. extra heavy .95
No. 5-A-380. 4x2 in. standard .72
No. 5-A-381. 4x2 in. extra heavy .95

SANITARY CROSSES TAPPED FOR STANDARD IRON PIPE.

Each

No. 5-A-382. 2x1¼ in. standard $0.52
No. 5-A-383. 2x1½ in. extra heavy .67
No. 5-A-384. 2x1½ in. standard .52
No. 5-A-385. 2x1½ in. extra heavy .67
No. 5-A-386. 2x2 in. standard .52
No. 5-A-387. 2x2 in. extra heavy .67
No. 5-A-388. 4x1½ in. standard .75
No. 5-A-389. 4x1½ in. extra heavy .95
No. 5-A-390. 4x1½ in. standard .75
No. 5-A-391. 4x1½ in. extra heavy .95
No. 5-A-392. 4x2 in. standard .75
No. 5-A-393. 4x2 in. extra heavy .95

"Y" BRANCHES.

Each

No. 5-A-394. 2x2 in. standard $0.15
No. 5-A-395. 2x2 in. extra heavy .22
No. 5-A-396. 4x2 in. standard .37
No. 5-A-397. 4x2 in. extra heavy .50
No. 5-A-398. 4x4 in. standard .37
No. 5-A-399. 4x4 in. extra heavy .50

DOUBLE "Y" BRANCHES.

Each

No. 5-A-400. 2x2 in. standard $0.31
No. 5-A-401. 2x2 inch. extra heavy .44
No. 5-A-402. 4x2 in. standard .55
No. 5-A-403. 4x2 in. extra heavy .77
No. 5-A-404. 4x4 in. standard .55
No. 5-A-405. 4x4 in. ex. heavy .77

OFFSETS.

Each

No. 5-A-406. 2x2 in. standard $0.16
No. 5-A-407. 2x2 in. extra heavy .25
No. 5-A-408. 2x4 in. standard .19
No. 5-A-409. 2x4 in. extra heavy .30
No. 5-A-410. 2x6 in. standard .22
No. 5-A-411. 2x6 in. extra heavy .33
No. 5-A-412. 2x8 in. standard .25
No. 5-A-413. 2x8 in. extra heavy .35
No. 5-A-414. 2x10 in. standard .29
No. 5-A-415. 2x10 in. extra heavy .39
No. 5-A-416. 2x12 in. standard .33
No. 5-A-417. 2x12 in. extra heavy .42
No. 5-A-418. 4x4 in. standard .35
No. 5-A-419. 4x4 in. extra heavy .46
No. 5-A-420. 4x6 in. standard .38
No. 5-A-421. 4x6 in. extra heavy .52
No. 5-A-422. 4x8 in. standard .41
No. 5-A-423. 4x8 in. extra heavy .58
No. 5-A-424. 4x10 in. standard .47
No. 5-A-425. 4x10 in. extra heavy .65
No. 5-A-426. 4x12 in. standard .55
No. 5-A-427. 4x12 in. extra heavy .75

VENTILATING BRANCHES WITH SIDE INLET.

Each

No. 5-A-428. 2x2 in. standard $0.25
No. 5-A-429. 2x2 in. extra heavy .35
No. 5-A-430. 4x2 in. standard .42
No. 5-A-431. 4x2 in. extra heavy .52

TAPPED INCREASERS.

Small opening tapped for standard pipe.

Each

No. 5-A-432. 1½ to 4 in. standard $0.30
No. 5-A-433. 1½ to 4 in. extra heavy .35
No. 5-A-434. 2 to 4 in. standard .35
No. 5-A-435. 2 to 4 in. extra heavy .39

REDUCERS.

Each

No. 5-A-436. 4 to 2 in. standard 0.19
No. 5-A-437. 4 to 2 in. extra heavy .25

DOUBLE HUBS.

Each

No. 5-A-438. 2 in. standard $0.07
No. 5-A-439. 2 in. extra heavy .11
No. 5-A-440. 4 in. standard .16
No. 5-A-441. 4 in. extra heavy .20

PLUGS.

Each

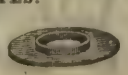
No. 5-A-442. 2 in. standard $.03½
No. 5-A-443. 2 in. extra heavy .05
No. 5-A-444. 4 in. standard .07
No. 5-A-445. 4 in. extra heavy .17

VENTILATING CAPS.

Each

No. 5-A-446. 4x6 in. long, standard $0.25
No. 5-A-447. 4x6 in. long, extra heavy .37
No. 5-A-448. 4x12 in. long, standard .40
No. 5-A-449. 4x12 in. long, extra strong .55

ROOF PLATES.



Each

No. 5-A-450. 4 in. standard $0.10
No. 5-A-451. 4 in extra heavy. .18

PIPE RESTS.

No. 5-A-452. 2 in. standard....$0.08
No. 5-A-453. 2 in. extra heavy. .10
No. 5-A-454. 4 in. standard.... .16
No. 5-A-455. 4 in. extra heavy. .18

"S" TRAPS.

Price Each

No. 5-A-456. 2 in. standard ..$0.20
No. 5-A-457. 2 in. extra heavy ..... .29
No. 5-A-458. 4 in. standard... .42
No. 5-A-459. 4 in. extra heavy.. .63

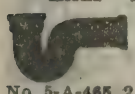
THREE-QUARTER "S" TRAPS

Price Each

No. 5-A-460. 2 in. standard.....$0.20
No. 5-A-461. 2 in. extra heavy .... .24
No. 5-A-462. 4 in. standard ..... .42
No. 5-A-463. 4 in. extra heavy ..... .63

HALF "S" TRAPS.

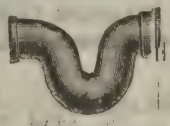
Price Each



No. 5-A-464. 2 in. standard.....$0.20
No. 5-A-465. 2 in. extra heavy.. .29
No. 5-A-466. 4 in. standard..... .42
No. 5-A-467. 4 in. extra heavy.. .63

RUNNING TRAPS.

Price Each



No. 5-A-468. 2 inch standard.....$0.20
No. 5-A-469. 2 in. extra heavy..... .29
No. 5-A-470. 4 in. standard..... .42
No. 5-A-471. 4 in. extra heavy. .63

"S" TRAPS WITH VENT.

Price Each

No. 5-A-472. 2 in. with 2 in. vent, standard. .$0.40
No. 5-A-473. 2 in. with 2 in. vent, extra heavy..... .50
No. 5-A-474. 4 in. with 2 in. vent, standard..... .63
No. 5-A-475. 4 in. with 2 in. vent, extra heavy..... .85

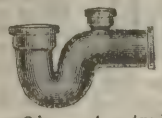
THREE-QUARTER "S" TRAPS WITH VENT.

Price Each

No. 5-A-476. 2 in. vent, standard. .$0.40
No. 5-A-477. 2 in. with 2 in. vent, extra heavy..... .50
No. 5-A-478. 4 in. with 2 in. vent, standard..... .63
No. 5-A-479. 4 in. with 2 in. vent, extra heavy..... .85

HALF "S" TRAPS WITH VENT.

Price Each



No. 5-A-480. 2 in. with 2 in. vent, standard. .$0.40
No. 5-A-481. 2 in. with 2 in. vent, extra heavy..... .50
No. 5-A-482. 4 in. with 2 in. vent, standard..... .63
No. 5-A-483. 4 in. with 2 in. vent, extra heavy..... .85

"S" TRAPS WITH HAND HOLE AND COVER.

Price Each

No. 5-A-488. 2 in. standard.....$0.35
No. 5-A-489. 2 in. extra heavy..... .42
No. 5-A-490. 4 in. standard..... .60
No. 5-A-491. 4 in. extra heavy. .85

RUNNING TRAP WITH VENT.

Price Each

No. 5-A-484. 2 in. with 2 in. vent, standard. ..$0.40
No. 5-A-485. 2 in. with 2 in. vent, extra heavy.. .50
No. 5-A-486. 4 in. with 4 in. vent, standard..... .75
No. 5-A-487. 4 in. with 2 in. vent, extra heavy..... .95

THREE-QUARTER "S" TRAPS WITH HAND HOLE AND COVER.

Price Each

No. 5-A-492. 2 in. standard.....$0.35
No. 5-A-493. 2 in. extra heavy..... .42
No. 5-A-494. 4 in. standard..... .60
No. 5-A-495. 4 in. extra heavy. .85

HALF "S" TRAPS WITH HAND HOLE AND COVER.

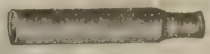
Price Each

No. 5-A-496. 2 in. standard.....$0.35
No. 5-A-497. 2 in. extra heavy..... .42
No. 5-A-498. 4 in. standard... .60
No. 5-A-499. 4 in. extra heavy. .85

LONG INCREASERS FOR CALKING.

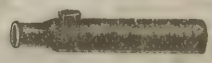
No. 5-A-517. 2 to 4x24 inches long, standard. Price $0.65
No. 5-A-518. 2 to 4x24 inches long, extra heavy. Price... .70

LONG INCREASERS TAPPED ON BOTTOM FOR IRON PIPE.



No. 5-A-519. 1½ to 4x24 inches long, standard. Price.....$0.75
No. 5-A-520. 2 to 4x24 inches long, standard. Price..... .75
No. 5-A-521. 1½ to 4x24 inches long, extra heavy. Price..... .90
No. 5-A-522. 2 to 4x24 inches long, extra heavy. Price..... .90

LONG INCREASERS TAPPED ON SIDE FOR IRON PIPE.

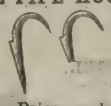


No. 5-A-523. 2 to 4 inches, tapped 1½ inches on side, 24 inches long, standard. Price..... $0.75
No. 5-A-524. 2 to 4 inches, tapped 2 inches on side, 24 inches long, standard. Price..... .75
No. 5-A-525. 2 to 4 inches, tapped 1½ inches on side, 24 inches long, extra heavy. Price..... .90
No. 5-A-526. 2 to 4 inches, tapped 2 inches on side, 24 inches long, extra heavy. Price..... .90
No. 5-A-527. 4 to 5 inches, tapped 2 inches on side, 30 inches long, standard. Price..... .90
No. 5-A-528. 4 to 5 inches, tapped 2 inches on side, 30 inches long, extra heavy. Price..... 1.10

RUNNING TRAPS WITH HAND HOLE AND COVER.

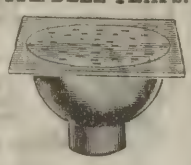
No. 5-A-81. 2 in. standard $0.35
No. 5-A-82. 2 in. ex. heavy .42
No. 5-A-83. 4 in. standard .60
No. 5-A-84. 4 in. ex. heavy .85

SOIL PIPE HOOKS.



No. 5-A-85. 2 in. Price each.....$0.04
No. 5-A-86. 4 in. Price each..... .05½

CAST IRON CESSPOOLS WITH BELL TRAPS.



Price each.
No. 5-A-87. 6 in. x 6 in. $0.40
No. 5-A-88. 9 in. x 9 in. .50
No. 5-A-89. 13 in. x 13 in. .75

If you want honestly made and reliable goods it will pay you to refer to the Furniture Section of this Catalogue.

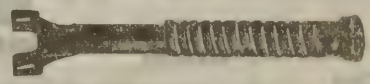
CLEAN OUT PLUGS.

Iron Ferrule with Brass Trap Screw.

Price Each.
No. 5-A-90. 2 in..... $0.16
No. 5-A-91. 4 in..... .27

SERVICE BOXES.

No. 5-A-92. 2½ inches Diameter



Extending Inches	24-38	36-54	42-60	54-78
Price each	$0.73	$0.83	$0.90	$1.10

GREENHOUSE FITTINGS

Are used in connection with four-inch cast iron greenhouse pipe or four-inch boiler tubes. Boiler tubes are being used more for greenhouse heating than the cast iron pipe. The tubes radiate the heat quicker than the pipe and they come in much longer lengths, thereby reducing the number of joints.

Fittings are made only for four-inch tubes or cast iron pipe.

No. 5-A-500. Return Bend Hub Outlet.
Price, each.....$0.80

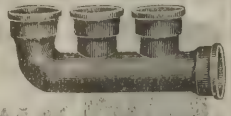
No. 5-A-501. Return Bend Spigot Outlet.
Price, each.....$0.80

No. 5-A-502. Return Bend Single Hub.
Price, each.....$0.60

No. 5-A-503. Return Bend Double Hub.
Price, each.....$0.68

No. 5-A-504. Double Elbow all Hub Connections.
Price, each.....$0.90

No. 5-A-505. Triple Elbow, all Hub connections.
Price, each.....$1.25



No. 5-A-506. Quadruple Elbow, all Hub connections.
Price, each.....$1.50

No. 5-A-507. ¼ Bend or Elbow Double Hub.
Price, each.....$0.27

No. 5-A-508. ¼ Bend or 45 degree Elbow, Double Hub.
Price, each.....$0.27

No. 5-A-509. Cross with Hub connections.
Price, each.....$0.80

No. 5-A-510. Branch Tee, Hub connections.
Price, each.....$0.60

No. 5-A-511. "H" Branch with Hub connections.
Price, each.....$0.60

No. 5-A-512. Three Way Branch tee with Hub connections.
Price, each.....$1.50

No. 5-A-513. Greenhouse Butterfly Valve, Hub ends.
Price, each.....$3.50

No. 5-A-514. Greenhouse Valve, Hub ends.
Price, each.....$5.50

LEAD PIPE.

We will furnish this pipe cut in lengths you may require. Prices are based on present market conditions. We offer Lead Pipe subject to market changes.

No. 5-A-93. Strong for supply pipe.

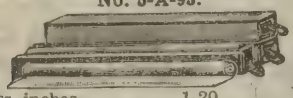
Size inches	½	¾	1	1¼
Weight per foot	1½	2	2½	3½
Price per foot	$0.08½	$0.13	$0.16	$0.22

No. 5-A-94. Light, for waste pipe.

Inches	½	1	1¼	1½	2	4
Weight per ft. lbs.	1	1½	2	3	3	5
Price per foot	$0.06½	$0.10	$0.13	$0.20	$0.20	$0.33

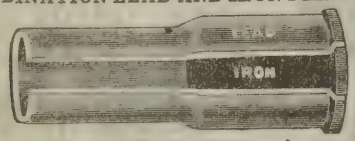
SHEET LEAD.

No. 5-A-95.



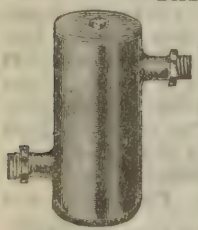
Thickness, inches	1-20	1-16
Weight per square foot, lbs.	3	4
Price per square foot	$0.21	$0.28

COMBINATION LEAD AND IRON FERRULES



No. 5-A-96. 4 ins. x 6 ins. Price each..... $0.42
No. 5-A-97. 4 ins. x 8 ins. Price each..... .51
No. 5-A-98. 4 ins. x10 ins. Price each..... .63
No. 5-A-99 4 ins. x12 ins. Price each..... .70

BATH TRAPS.



Lead body size 4x8 ins. brass trap screw.
No. 5-A-100. Connections are threaded for 1½ ins. pipe. Price $2.50
No. 5-A-101. 1½ ins. connections..... 2.75
If nickel plated trap screw is required there will be additional charge of 25c.

LEAD DRUM TRAPS.

No. 5-A-102. Lead drum traps with plain brass trap screw, size 4 ins.x9 ins. Price each..... $1.00
No. 5-A-103. Lead drum traps with nickel plated brass trap screw size 4"x9". Price each... 1.10

COMBINATION LEAD AND BRASS SOLDER NIPPLES.

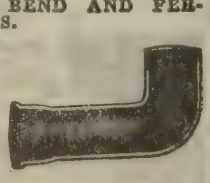
Used to connect lead and iron pipe.

		Price Each.
No. 5-A-104.	1½ ins.x 4 ins. long	$0.20
No. 5-A-105.	1½ ins.x 6 ins. long	.22
No. 5-A-106.	1½ ins.x 8 ins. long	.26
No. 5-A-107.	1½ ins.x10 ins. long	.29
No. 5-A-108.	1½ ins.x12 ins. long	.32
No. 5-A-109.	1½ ins.x 4 ins. long	.24
No. 5-A-110.	1½ ins.x 6 ins. long	.30
No. 5-A-111.	1½ ins.x 8 ins. long	.33
No. 5-A-112.	1½ ins.x10 ins long	.37
No. 5-A-113.	1½ ins.x12 ins. long	.40
No. 5-A-114.	2 ins.x 4 ins. long	.36
No. 5-A-115.	2 ins.x 6 ins. long	.43
No. 5-A-116.	2 ins.x 8 ins. long	.48
No. 5-A-117.	2 ins.x10 ins. long	.54
No. 5-A-118.	2 ins.x12 ins. long	.59

COMBINATION LEAD BEND AND FERRULES.

With 5½ ins. Inlet.

No. 5-A-119. 4 ins. x 12 ins. Price each. $1.10
No. 5-A-120. 4 ins. x 14 ins. Price each.. 1.20
No. 5-A-121. 4 ins. x 16 ins. Price each.. 1.30
No. 5-A-122. 4 ins. x 18 ins. Price each.. 1.40

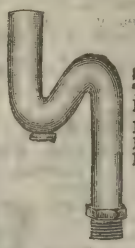


LEAD RUNNING TRAPS.

	Price Each.
No. 5-A-123. Size 1¼ inch.....	$0.26
No. 5-A-124. Size 1½ in.....	.38
No. 5-A-125. Size 2 inch.....	.60

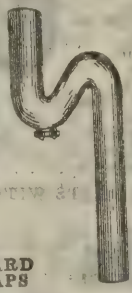
SHORT STANDARD LEAD "S" TRAPS.

		Price Each.
No. 5-A-126.	1¼ ins.....	$0.29
No. 5-A-127.	1½ ins.....	.45
No. 5-A-128.	2 ins.....	.70
No. 5-A-129.	4 ins.....	1.62



SHORT STANDARD LEAD "S" TRAPS WITH IRON PIPE CONNECTIONS ON OUTLET END.

No. 5-A-130. 1¼ ins. Price each $1.04
No. 5-A-131. 1½ ins. Price each 1.35
No. 5-A-132. 2 ins. Price each 1.95



LONG STANDARD LEAD "S" TRAPS.

		Price Each.
No. 5-A-133.	1¼ ins.....	$0.47
No. 5-A-134.	1½ ins.....	.68
No. 5-A-135.	2 ins.....	1.00

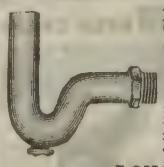
LONG STANDARD LEAD "S" TRAPS

With iron pipe connection on outlet end.

No. 5-A-136. 1¼ ins. Price each..... $1.32
No. 5-A-137. 1½ ins. Price each..... 1.58
No. 5-A-138. 2 ins. Price each..... 2.25

HALF "S" OR "P" LEAD TRAPS.

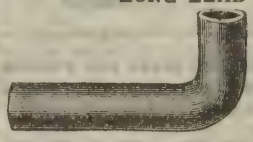
		Price Each.
No. 5-A-139.	1¼ ins.....	$0.27
No. 5-A-140.	1½ ins.....	.38
No. 5-A-141.	2 ins.....	.60



HALF "S" OR "P" LEAD TRAPS WITH IRON PIPE CONNECTIONS ON OUTLET END.

		Price Each.
No. 5-A-142.	1¼ ins.....	$1.02
No. 5-A-143.	1½ ins.....	1.28
No. 5-A-144.	2 ins.....	1.85

LONG LEAD BENDS.



	Price Each.
No. 5-A-145. 1¼ ins.....	$0.15
No. 5-A-146. 1½ ins.....	.25
No. 5-A-147. 2 ins.....	.39
No. 5-A-148. 4 ins.....	.98

SHORT LEAD BENDS.

No. 5-A-149.	1¼ ins.	Price each.....	$0.13
No. 5-A-150.	1½ ins.	Price each.....	.19
No. 5-A-151.	2 ins.	Price each.....	.29
No. 5-A-152.	4 ins.	Price each.....	.75

BRASS FERRULES.

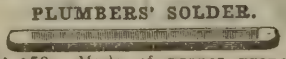
Used in connecting Closet Waste Pipe or Soil Pipe.

		Price Each.
No. 5-A-153.	2 ins.x4 ins.	$0.15
No. 5-A-154.	4 ins x4 ins.	.31
No. 5-A-155.	4 ins.x6 ins.	.38

SINK BRACKETS. Adjustable.

No. 5-A-156. For 16ins. and 18 ins. sink. Price per pair..... $0.22
No. 5-A-157. For 20 ins. sinks and larger. Price per pair..... .30

PLUMBERS' SOLDER.



No. 5-A-158. Made of proper proportions of pure block tin and pig lead. Comes in bars weighing about 1½ lbs. each. We sell full bars only. Guaranteed to be the best plumbers' solder on the market.
Price per pound..... $0.19

CALKING LEAD.

No. 5-A-159. Price per pound..... $0.08

PLUMBERS' OAKUM.

For calking soil pipe and fittings.

	Price
No. 5-A-160. Per lb.	$0.05½
No. 5-A-161. Per 50 lb bale.....	1.75

GASOLINE BLOW-TORCHES.

No. 5-A-162. Equipped with soldering iron attachment. Made of heavy brass and has non-leakable valves. The safest and best torch on the market.
Capacity one quart.
Price..... $2.65

GASOLINE BULB BLAST PLUMBERS' FURNACE.

Fitted with shield to hold melting pot. This furnace will produce quicker and hotter flame than any other furnace of its kind on the market.
No. 5-A-163. Price..... $2.95

MELTING POT.

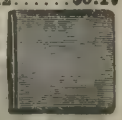
No. 5-A-164. To be used in connection with our Gasoline Bulb Blast Furnace. Price. $0.18

MELTING LADLES.

No. 5-A-165.

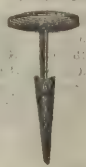
Size across bowl, inches	3	4	5
Price	$0.10	$0.12	$0.17

WIPING CLOTH.



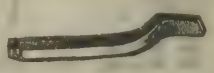
No. 5-A-165. Used by plumbers in wiping lead joints. Made of very heavy ticking.
Price each..... $0.05

TAP BORER.



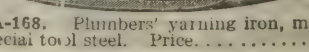
No. 5-A-166. Plumbers' tap borer.
Price..... $0.16

CALKING CHISEL.



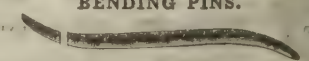
No. 5-A-167. Plumbers' calking chisel, made of special tool steel.
Price each..... $0.17

YARNING IRON.



No. 5-A-168. Plumbers' yarning iron, made of special tool steel. Price..... $0.29

BENDING PINS.



No. 5-A-169. Plumbers' bending pins.
Price each..... $0.16

OVAL SHAVE HOOKS.

No. 5-A-170. Plumbers' oval shave hook, crucible steel blade. Price each. $0.18

TURN PINS.

No. 5-A-171.

Size Nos.	1	2	3
Price each	$0.17	$0.19	$0.20

DRIFT PLUGS.

No. 5-A-172.

Size, in.	1	1¼	1½	2
Price ea.	$0.08	$0.11	$0.13	$0.15

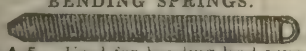
BOX WOOD DRESSER.

No. 5-A-173. Plumbers' Box Wood Dresser.
Price each..... $0.45

SOLDERING COPPERS.

No. 5-A-4. Weight, 1 lb. each. Furnished without handles. Price, each..... $0.35

BENDING SPRINGS.



No. 5-A-5. Used for bending lead pipe. Made of the best quality of spring steel.

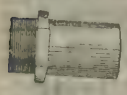
Size, inches	1¼	1½	2
Price, each	$0.26	$0.30	$0.60

RUBBER EXTENSION ELBOWS.

No. 5-A-6. Used to connect flush pipe with closet bowl, can be applied by anyone. Saves plumber's bills.

Size, inches	1¼	1½
Price, each	$0.25	$0.45

BRASS SOLDERING NIPPLES—USED TO CONNECT LEAD WITH IRON PIPE.



No. 5-A-8.

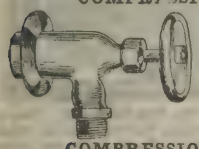
Size, inches	⅜	½	⅝	¾
Price, each	.07	.08	.09	.09
Size, inches	1	1¼	1½	2
Price, each	.11	.15	.22	.31

BRASS SOLDERING UNIONS—USED TO CONNECT LEAD WITH IRON.

No. 5-A-9.

Size, inches	⅜	½	⅝
Price, each	.08	.09	.11
Size, inches	¾	1	1¼
Price, each	.12	.15	.19
Size, inches	1½	2	
Price, each	.29	.41	

COMPRESSION SILL COCK.



No. 5-A-10. Size, inches, ½. Price..$0.58

COMPRESSION PLAIN BIBBS. For Lead Pipe.

No. 5-A-11.

Size, inches	Price each, Finished Brass	Price each, Nickel Plated
½	$0.35	$0.45
¾	.50	.60
1	1.00	1.10

COMPRESSION HOSE BIBBS.

No. 5-A-12. For Lead Pipe.

Size, Inches.	Price each, Finished Brass.	Price each, Nickel Plated.
½	$0.40	$0.50
¾	.50	.60
1	1.08	1.20

COMPRESSION HOSE BIBBS WITH FLANGE.

No. 5-A-13. For Iron Pipe.

Size, Inches.	Price each, Finished Brass.	Price each, Nickel Plated.
½	$0.50	$0.60
¾	.60	.70
1	1.50	1.60

COMPRESSION PLAIN BIBBS WITH FLANGE.

No. 5-A-14. For Iron Pipe.

Size, Inches.	Price each Finished Brass.	Price each, Nickel Plated.
½	$0.45	$0.55
¾	.55	.65
1	1.25	1.35

COMPRESSION PLAIN BIBBS WITH FLANGE.

No. 5-A-15. For Lead Pipe.

Size, Inches.	Price each Finished Brass.	Price each, Nickel Plated.
½	$0.50	$0.60
¾	.70	.80

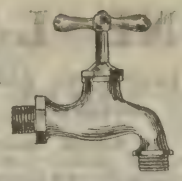
COMPRESSION HOSE BIBBS WITH FLANGE.

No. 5-A-16. For Lead Pipe.

Size, Inches.	Price each, Finished Brass.	Price each, Nickel Plated.
½	$0.55	$0.65
¾	.70	.80

COMPRESSION HOSE BIBBS.

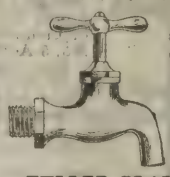
No. 5-A-17. For Iron Pipe.



Price each ½ in. size	Price each, Finished Brass. ¾ in. size	Price each, Nickel Plated. 1 in. size
$0.40	$0.50	$1.20
.50	.60	1.30

COMPRESSION PLAIN BIBBS.

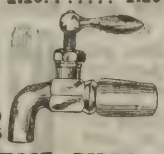
No. 5-A-18. For Iron Pipe.



Size, Inches.	Price each, Finished Brass.	Price each, Nickel Plated.
½	$0.36	$0.46
¾	.45	.55
1	1.10	1.20

FULLER PLAIN BIBBS.

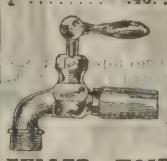
No. 5-A-19. For Lead Pipe.



Size, Inches.	Price each, Finished Brass.	Price each, Nickel Plated.
½	$0.40	$0.50
¾	.46	.56

FULLER HOSE BIBBS.

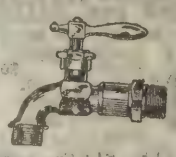
No. 5-A-20. For Lead Pipe.



Size, Inches.	Price each, Polished Brass.	Price each, Nickel Plated.
½	$0.45	$0.55
¾	.52	.62

FULLER HOSE BIBBS FOR IRON PIPE.

No. 5-A-21.



Size, Inches.	Price each, Finished Brass.	Price each, Nickel Plated.
½	$0.50	$0.60
¾	.55	.65

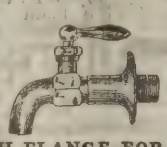
FULLER PLAIN BIBBS. For Iron Pipe.

No. 5-A-22.

Size, Inches	Price each, Finished Brass	Price each, Nickel Plated
½	$0.45	$0.55
¾	.50	.60

FULLER PLAIN BIBBS WITH FLANGE FOR IRON PIPE.

No. 5-A-23.



Size, inches	Price each, Finished Brass	Price each, Nickel Plated
½	$0.54	$0.64
¾	.63	.73

FULLER HOSE BIBBS WITH FLANGE FOR IRON PIPE.

No. 5-A-24.

Size, inches	Price each, Finished Brass	Price each, Nickel Plated
½	$0.55	$0.65
¾	.62	.72

FULLER PLAIN BIBBS WITH FLANGE FOR LEAD PIPE.

No. 5-A-25.

Size, inches	Price each, Finished Brass	Price each, Nickel Plated
½	$0.54	$0.64
¾	.63	.73

FULLER HOSE BIBBS WITH FLANGE FOR LEAD PIPE.

No. 5-A-26.

Size, inches	Price each, Finished Brass	Price each, Nickel Plated
½	$0.55	$0.65
¾	.62	.72

LEVER HANDLE BRASS STOPS FOR IRON PIPE.

No. 5-A-27.

Size, inches	Price, each
¼	$0.30
⅜	.40
1	.68
1¼	1.05
1½	1.60
2	3.10

"T" HANDLE BRASS STOPS FOR IRON PIPE.

No. 5-A-28.

Size, inches	Price, each	Size, inches	Price, each
¼	$0.30	1¼	$1.05
⅜	.40	1½	1.60
1	.68	2	3.10

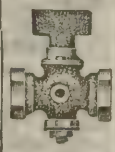
LEVER HANDLE BRASS STOP AND WASTE FOR IRON PIPE.

No. 5-A-29.

Size Inches	Price, each	Size, inches	Price, each
¼	$0.35	1¼	1.15
⅜	.45	1½	1.70
1	.74	2	3.35

"T" HANDLE BRASS STOP AND WASTE FOR IRON PIPE.

No. 5-A-30.



Size, inches	Price, each	Size, inches	Price, each
¼	$0.35	1¼	$1.15
⅜	.45	1½	1.70
1	.74	2	3.35

LEVER HANDLE BRASS STOPS FOR LEAD PIPE.

No. 5-A-31.

Size, inches	Price, each
¼	$0.30
⅜	.40
1	.68

"T" HANDLE BRASS STOPS FOR LEAD PIPE.

No. 5-A-32.

Size inches	Price, each
¼	$0.30
⅜	.40
1	.68

LEVER HANDLE BRASS STOP AND WASTE FOR LEAD PIPE.

No. 5-A-33.

Size, inches	Price, each
¼	$0.35
⅜	.45
1	.74

"T" HANDLE BRASS STOP AND WASTE FOR LEAD PIPE.

No. 5-A-34.

Size, inches	Price, each
¼	$0.35
⅜	.45
1	.74

THREE-WAY BRASS COCK.

No. 5-A-35.

Size, inches	Price, each	Size, inches	Price, each
¼	$0.70	1¼	$1.65
⅜	.85	1½	2.00
1	1.00	2	3.25

HYDRANT COCK.

No. 5-A-36.

Size, inches	Price each
¼	$0.44
⅜	.62
1	.90
1¼	1.40

HYDRANT CLAMPS.

No. 5-A-37. To be used in connection with ¼ inch pipe to shut off hydrant cock on "T" handle stops.

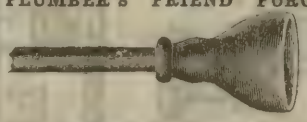
Size, inches	Price, each	Size, inches	Price, each
¼	$0.04	1	$0.06
⅜	.05	1¼	.07

COMPRESSION URINAL COCK FOR LEAD OR IRON PIPE.

No. 5-A-38. Lead pipe. Price, each..... $0.80

No. 5-A-39. Iron pipe. Price, each..... .80

PLUMBER'S FRIEND FORCE CUPS.



No. 5-A-42. Used to force obstructions from closets, lavatories and sinks. Place the rubber cup over the opening and press down; this will form a suction and remove almost any obstruction, saving a plumber's bill which will easily pay for the force cup many times over. Complete with 3 foot handle.

Price, each..... $0.28

Price, per dozen..... 3.00

BATHROOM AND LAVATORY TRIMMINGS.

No. 5-A-43. FULLER DOUBLE BATH COCKS.

No. 4½. Made of heavy cast brass handsomely nickel plated, guaranteed to be the best cock on the market.
No. 5-A-44. Price with lead pipe tail piece.....$1.75
No. 5-A-45. Price with iron pipe tail piece..... 1.80

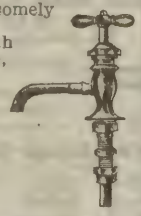
COMPRESSION DOUBLE BATH COCK.

Made of heavy cast brass, handsomely nickel plated, excellent design, best possible to produce.
No. 5-A-46.
Price with lead pipe tail piece..$1.70
No. 5-A-47. Price with iron pipe tail piece..... 1.80

FULLER BASIN COCK.

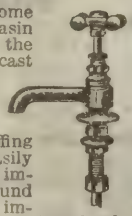
Cast brass, heavy design, finely nickel plated. Generally sold in pairs. One right, and one left hand. We will, however, sell a single cock, but it will be necessary to state when ordering whether right or left hand is required.
No. 5-A-48. Price with lead pipe tail piece, each.....$0.70
No. 5-A-49. Price with iron pipe tail piece, each.....75

COMPRESSION BASIN COCKS.



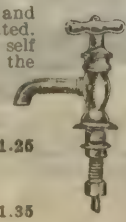
T handle, handsomely nickel plated.
No. 5-A-50. Price with lead pipe tail piece, each.....$0.50
No. 5-A-51. Price with iron pipe tail piece, each. .55

INDEXED COMPRESSION BASIN COCK. Nickel Plated.



The most handsome and serviceable Basin Cock manufactured, the body and spout are cast solid in one piece, making it impossible to leak around the spout. It is made with a stuffing box, which can be easily packed, making it impossible to leak around the handle. These important features are to be found only in this style of basin cock. On the top of the handle a white porcelain plate is properly fitted in and marked either "Hot" or "Cold". If not ordered in pairs, be sure and state what index you desire.
No. 5-A-52. Price with lead pipe tail piece, each.....$0.95
No. 5-A-53. Price with iron pipe tail piece, each..... 1.00

BOSTON PATTERN SELF CLOSING BASIN COCKS.



Heavy pattern, and handsomely nickel plated. The most satisfactory self closing Basin Cock on the market.
No. 5-A-54. Price with lead pipe tail piece, each...$1.25
No. 5-A-55. Price with lead iron pipe tail piece, each..... 1.35

CONNECTED BATH WASTE AND OVERFLOW.

No. 5-A-56. Heavily nickel plated. Can be connected with the bath tub. This complete fitting costs less than the labor of putting in the old style waste and overflow in connection with bath tub.
Price, each.....$1.25

COMBINATION BATH TRAP, OVERFLOW AND WASTE.

The trap is provided with clean out plug, and is perfectly sanitary. Heavily nickel plated. We can furnish this fitting for either iron or lead pipe outlet.
No. 5-A-57. Price for lead pipe outlet.....$3.00
No. 5 - A - 58. Price for iron pipe outlet... 3.75

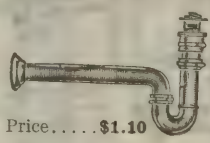
BATH OVERFLOW STRAINER WITH RING FOR CHAIN.

No. 5 - A - 59. For lead pipe, Price.....$0.50
No. 5 - A - 60. For 1¼ inch standard pipe, price..... .65

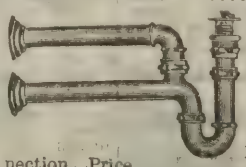
BATH WASTE PLUG, WITH RUBBER STOPPER.

No. 5-A-61. For lead pipe. Price.....$0.50
No. 5-A-62. For 1¼ inch iron pipe. Price .65

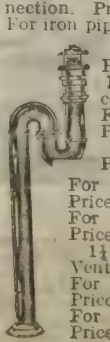
LAVATORY TRAPS, MADE OF NICKEL PLATED BRASS TUBING HEAVILY NICKEL PLATED.



1¼ in. Nickel Plated Plain "P" traps, not vented.
No. 5-A-65. For lead pipe connection.
Price.....$1.10
No. 5-A-66. For iron pipe connection. Price.....$1.60
1¼ inch Nickel Plated Plain "P" traps, not vented.
No. 5-A-67. For lead pipe connection. Price.....$1.45
No. 5-A-68. For iron pipe connection. Price.....$1.95

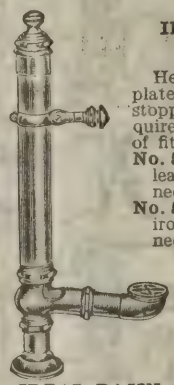


1¼ inch Nickel Plated, Vented "P" traps.
No. 5-A-71. For lead pipe connection. Price.....$1.45
For iron pipe connection..... 2.20
1¼ inch Nickel Plated, Vented "P" traps.
No. 5-A-72. For lead pipe connection. Price.....$2.00
For iron pipe connection..... 2.75



1¼ inch Nickel Plated Plain "S" traps.
No. 5-A-72½. For lead pipe connection. Price, $1.50
For iron pipe connection. Price.....$ 2.00
1¼ inch Nickel Plated Plain "S" traps.
For lead pipe connection. Price.....$2.00
For iron pipe connection. Price.....$2.50
1¼ inch Nickel Plated, Vented, "S" traps.
For lead pipe connection. Price.....$2.00
For iron pipe connection. Price.....$2.75

IDEAL BATH WASTE.

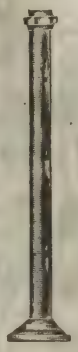


Heavily nickel plated. A rubber stopper is not required with this style of fitting.
No. 5-A-73. For lead pipe connection. Price$4.50
No. 5-A-74. For iron pipe connection. Price 5.00

IDEAL BASIN WASTE.

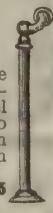
Heavily nickel plated. Size 1¼ inch.
No. 5-A-75. For lead pipe connection. Price.....$3.00
No. 5-A-76. For iron pipe connection. Price..... 3.50

STRAIGHT BATH SUPPLY PIPES.



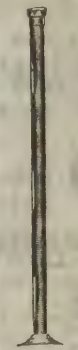
No. 5-A-63. Nickel plated straight bath supply pipes, made of heavy ½ inch tubing, fitted with coupling, threaded to connect with tail piece on bath cock, complete with floor flanges.
Price, per pair.....$1.00

OFFSET BATH SUPPLY PIPES.



No. 5-A-64. Made of heavy ½ inch tubing, fitted with nickel plated threads to connect with bath cock, complete with floor flanges.
Price, per pair, $1.25

BASIN SUPPLY PIPES.

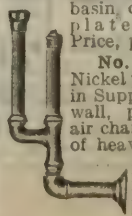


No. 5-A-77. Plain straight basin supplies, made of heavy tubing. Size, ⅜ inch; fitted with nickel plated coupling, threaded to fit basin cocks, furnished with nickel plated floor flanges.
Price, per pair.....$1.15

NICKEL PLATED BASIN SUPPLY PIPES.

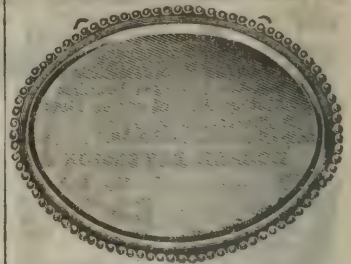
No. 5-A-78. With air chambers. Made for ⅜ inch brass tubing connection, threaded to fit basin cock, complete with floor flanges. Price, per pair.....$2.00

No. 5-A-79. Nickel plated Basin Supply Pipes to wall, plain, made of heavy ⅜ inch brass tubing fitted with coupling to fit basin cock, nickel plated flanges.
Price, pair..$1.00



No. 5-A-80. Nickel plated Basin Supply Pipes to wall, plain, with air chamber, made of heavy ⅜ inch brass tubing, fitted with coupling to fit basin cock, nickel plated flanges.
Price, per pair..$1.75

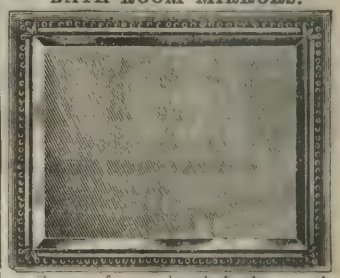
BATH ROOM MIRRORS.



Oval frame with beaded edge. Made of brass, heavily nickel plated and highly polished. Made to hang both ways. Is of the best French plate.

		Each
No. 5-A-212.	Size 14x17 in..	**$3.45**
No. 5-A-213.	Size 16x20 in..	**3.40**
No. 5-A-214.	Size 16x20 in..	**4.00**
No. 5-A-214.	Size 18x24 in..	**5.60**

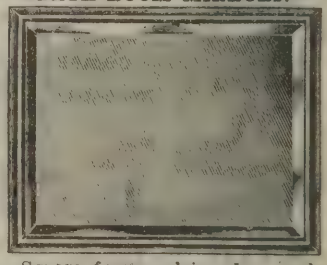
BATH ROOM MIRRORS.



Square frame, beaded edge, made of brass, heavily nickel plated and highly polished. Made to hang both ways. Made of the very best French plate.

		Each
No. 5-A-215.	Size 10x20 in..	**$3.60**
No. 5-A-216.	Size 14x17 in..	**3.75**
No. 5-A-217.	Size 16x20 in..	**4.50**
No. 5-A-218.	Size 18x24 in..	**6.00**

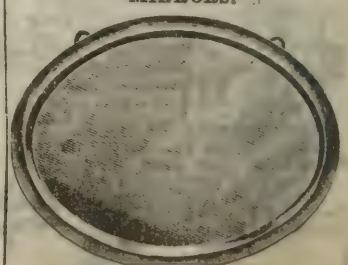
BATH ROOM MIRRORS.



Square frame, plain edge, made of brass, heavily nickel plated and highly polished. Made to hang both ways. Made of the very best French plate.

		Each
No. 5-A-219.	Size 10x20 in..	**$3.00**
No. 5-A-220.	Size 14x17 in..	**3.10**
No. 5-A-221.	Size 16x20 in..	**3.70**
No. 5-A-222.	Size 18x24 in..	**4.90**

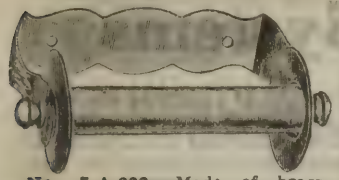
PLAIN OVAL BATH ROOM MIRRORS.



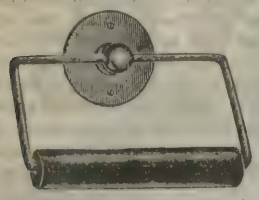
Plain oval frame, made of brass heavily nickel plated and highly polished. The mirror is the best French plate, with beveled edge.

No. 5-A-230.	Size 14x17 in..	**$2.80**
No. 5-A-231.	Size 10x20 in..	**2.70**
No. 5-A-232.	Size 16x20 in..	**3.25**
No. 5-A-233.	Size 18x24 in..	**4.50**

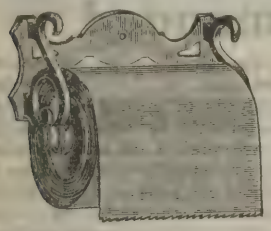
TOILET PAPER HOLDERS.



No. 5-A-223. Made of brass, polished and nickel plated, with cherry roller.
Price, each.....$0.40



No. 5-A-224. Made of brass, heavily nickel plated and highly polished, with ebony roller.
Price, each.....$0.25



No. 5-A-225. Made of cast brass, heavily nickel plated and highly polished. This is a heavy fixture, and is well adapted for use with our best bath room outfits.
Price, each.....$0.75

COAT AND HAT HOOK.

No. 5-A-226. Solid brass, heavily nickel plated and nicely finished. Furnished complete with screws.
Size 6x4¼ in.
Price, each.$0.33

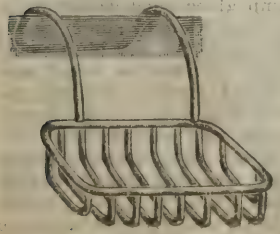
DOUBLE ROBE HOOKS.

No. 5-A-227. Made of one piece of cast brass, heavily nickel plated and highly polished. Furnished complete with screws.
Price, each...$0.10

SINGLE ROBE HOOKS.

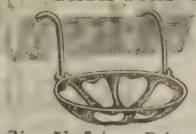
No. 5-A-228. Made of one piece cast brass, heavily nickel plated and highly polished. complete with screws.
Price, each. $0.17

BATH SOAP HOLDER.



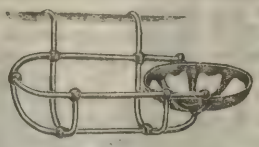
No. 5-A-235. Made of solid brass, heavily nickel plated, and nicely finished. Will fit any bath tub.
Size 5½x3¼ in. Price, each...$0.57

BATH SOAP HOLDER.



No. 5-A-234. Solid brass, nickel plated, nicely finished, and will fit any bath tub.
Size 5½x5 in. Price, each....$0.50

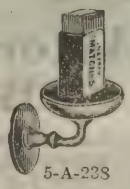
SPONGE AND SOAP DISH.



No. 5-A-236. Made of solid brass, nickel plated and highly polished. Will fit any bath tub.
Size 11x5½ in. Price, each...$1.30

MATCH HOLDER AND RECEPTACLE FOR BURNT MATCHES.

5-A-237



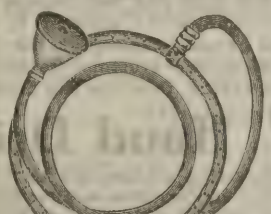
5-A-238

Made of solid brass, heavily nickel plated.
No. 5-A-237. Price, each....$0.95
No. 5-A-238. Price, each.....70

BATH OR SHAMPOO SPRAY.

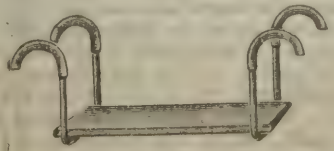
No. 5-A-240. Rubber bound, brass, nickel plated spray, 3 inches diameter, with 5 feet pure white rubber tubing, with hold fast rubber bulb.
Price, each.....$0.65

SHOWER BATH SPRAY OR RING.



No. 5-A-241. Ring is 11 inches diameter, solid brass, heavily nickel plated, and highly polished, with five feet pure white rubber hose and hold fast rubber bulb.
Price, each.....$1.15

BATH SEAT.

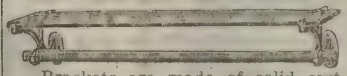


No. 5-A-239. The rods are made of brass, heavily nickel plated, ends are rubber covered to protect bath tub. The seat is of finished oak. Will fit any bath tub.
Size 18x6 in. Price, each.....$0.65

PLATE GLASS SHELVES.

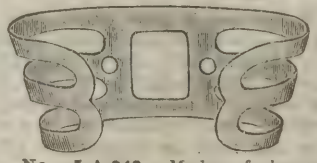
Brackets are adjustable solid brass, nickel plated, and highly polished. Plate glass shelf is polished, and has rounded edges.
No. 5-A-242. Size of shelf 18x5 in. Price.....$1.50
No. 5-A-243. Size of shelf 24x5 in. Price..... 1.95
No. 5-A-244. Size of shelf 30x5 in. Price..... 2.25

PLATE GLASS SHELF AND TOWEL BAR COMBINED.



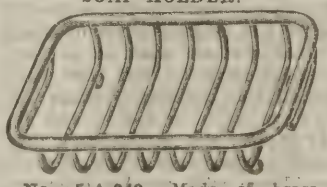
Brackets are made of solid cast brass, heavily nickel plated and polished. The shelf is made of plate glass polished, with rounded edges. The bar is of solid round glass, 1 inch diameter, and can be readily removed.
No. 5-A-245. Size of shelf 18x5 in. Price.....$2.75
No. 5-A-246. Size of shelf 24x5 in. Price..... 3.50
No. 5-A-247. Size of shelf 30x5 in. Price..... 4.00

WHISK BROOM HOLDER.



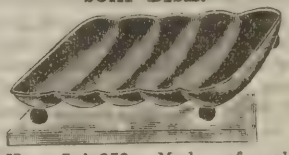
No. 5-A-248. Made of brass, heavily nickel plated, highly polished and complete with screws.
Price, each.....$0.15

SOAP HOLDER.



No. 5-A-249. Made of brass, heavily nickel plated, highly polished, finished with ball feet.
Size 5½x5 in. Price, each....$0.75

SOAP DISH.

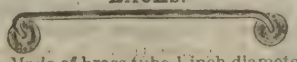


No. 5-A-250. Made of solid brass, heavily nickel plated, highly polished and finished with ball feet.
Size 4½x3 in. Price, each....$0.22

SOAP DISH.

No. 5-A-251. Made to fasten to wall. Solid brass, heavily nickel plated and highly polished, complete with screws. Price, each $0.38

NICKEL PLATED TOWEL RACKS.



Made of brass tube ½ inch diameter heavily nickel plated, complete with screws.

		Each
No. 5-A-207.	15 inches long.	$0.22
No. 5-A-208.	18 inches long.	.24
No. 5-A-209.	21 inches long.	.26
No. 5-A-210.	24 inches long.	.27
No. 5-A-211.	30 inches long.	.35

NICKEL PLATED TOWEL BARS.

Made of ½ inch brass tubing, heavily nickel plated, with cast posts, complete with screws.

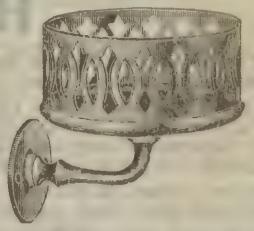
			Price Each
No. 5-A-252.	15 in.	long....	$0.36
No. 5-A-253.	18 in.	long....	.38
No. 5-A-254.	21 in.	long....	.43
No. 5-A-255.	24 in.	long....	.45
No. 5-A-256.	30 in.	long....	.50

GLASS TOWEL BAR.

Is made of clear ⅝ inch diameter. Posts are cast brass, heavily nickel plated and complete with screws.

			Price Each
No. 5-A-257.	15 in.	long....	$0.45
No. 5-A-258.	18 in.	long....	.55
No. 5-A-259.	24 in.	long....	.60

TUMBLER HOLDER.



No. 5-A-260. Solid brass, heavily nickel plated and highly polished, complete with screws.
Price, each.....$0.35

TUMBLER AND TOOTH BRUSH HOLDER COMBINED.

No. 5-A-261. Solid brass, heavily nickel plated and highly polished, complete with screws.
Price, each.....$0.40

TOOTH BRUSH HOLDER.

No. 5-A-262. Solid brass, heavily nickel plated and highly polished, complete with screws.
Price, each.....$0.55

Air Pressure Water Works Systems

Do not allow the very low prices at which we are offering these Air Pressure Systems to give you the impression that the Tanks and Pumping Apparatus, etc., which we furnish with these equipments are of an inferior quality. The argument of quality as advanced by many manufacturers, who attempt to convey the impression that they, and they only, are the real original makers of Air Pressure Tanks, and no one else in the country is able to make such a thing as an Air Tight Tank. This is an overworked excuse for exorbitant prices. We guarantee our tanks to be absolutely air tight and perfect in every way, and this guarantee is backed by our entire capital. If we ship you an outfit and you find after you get it installed that the Tank is defective at any point and does not hold air absolutely tight indefinitely, you have the privilege to return all to us at our expense and we will refund your money in full. We back these tanks in quality against any Tanks manufactured at the present time, regardless of who makes them. Do not let these misleading statements advanced by many manufacturers give you the impression that these outfits that we are offering at such low prices are of an inferior quality.

History

The Pneumatic Water Supply System as it now exists was invented by no one man. The basic principles and ideas were in use even long before the steam engine came into existence. Th prihciple of forcing water to an elevation with Air Pressure has been known and used in many ways for hundreds of years. The Air Chamber, which is attached to the cylinder of every ordinary pump, is nothing more or less than an application of this principle. The practical application of the basic ideas involved as it is in existence today, is the result of nothing more or less than evolution in the course of time; and, as before stated, this system as it stands today is the invention of no one man, regardless of what claims may be put forth to the contrary. There is no only one original inventor and manufacturer of these outfits. The principle on which these systems work is ancient. However, it is admitted that it is only recently that this principle has been so extensively applied and commonly made use of in the modern Air Pressure System, as it is today; and we take to ourselves as much credit as anyone else in the work that we have done in the past ten years in furthering the idea of supplying water to the country residence with an Air Pressure System of this kind. Ten years ago this business was in its infancy, and we were then in the field as well as others who may claim originality in this work. We have had just as much experience in the planning and the details of manufacture of the apparatus as any other concern in the country, and we are just as well in a position to furnish you a high grade outfit of high grade workmanship and material as anyone else. If you would compare one of our systems with any of the higher priced outfits on the market you would very soon see for yourself that the only difference is the difference in price; as far as quality is concerned, they are equal.

Nothing Complicated About It

If you have perused the literature of some of the manufacturers of these outfits, you have probably received the impression that an air pressure outfit is something very complicated—something that requires a lifetime study and engineering training to manufacture. We admit that there is considerable skill required in making an air pressure tank air tight, but beyond this there is nothing to it. The principles are almost as simple as any elevated tank system. It simply amounts to forcing the water into the tank against the air pressure, and this air, which is compressed in the top of the tank when the water is forced in, in expanding will naturally force the water out of the tank and through the piping system, and will cause it to flow out wherever a faucet is open on the line of piping. In order that the entire tank can be emptied, it is customary to pump in a quantity of air before the water is forced into the tank, so that when the tank is almost empty there will still be sufficient pressure of air in the tank to entirely empty the contents. For this reason it is proper that there should be a means of supplying air to the tank. Here, then, are the three essentials:—A simple pump to force the water into the tank; a simple means of supplying air whenever it may be necessary, and a suitable tank of proper strength and workmanship, so as to be able to withstand the pressure of the air and confine it under pressure for any length of time. The last mentioned item is the most important of the three, and requires the most attention. That is the Tank. We have all tanks on our air pressume systems manufactured for ourselves, under contract. We guarantee these contracts; and on account of the enormous amount of our sales of these tanks, we are able to offer you such low prices as you will find listed on these pages. The matter of manufacturing these tanks and turning out the highest grade tank that it is possible to make, has received our utmost attention, and every tank is manufactured by the most skilled workmen, with the necessary experience in building these tanks so that they will be absolutely air tight and perfect in every way, and they will remain so after they are installed.

Automatic Devices Not to Be Recommended

The systems which we use are the simplest in existence. Nothing complicated or intricate about them to get out of order and give you trouble. There are hundreds of special automatic air supplying devices, and various automatic devices of almost every imaginable description, which are placed on sale in connection with these outfits, and which are simply advanced as a selling point; and while the outfit itself may be entirely practical, it is a certainty that after you have the outfit installed you would very soon do away with these miscellaneous devices and find that your system will give you better satisfaction when operated in the old reliable and simple manner. That is, pump the water in when necessary; and when your gauge glass indicates that you need air, pump it in, yourself, without depending upon any automatic device to determine when the tank needs air and supply it. Sometimes these devices work, and sometimes they don't. The fact that they fail sometimes renders them impractical, and we do not recommend their use. We furnish two distinct systems. The only difference between the two is that in one system the water and air are supplied to the tank through two separate pumps; while in the other system we furnish a combination air and water pump, and there is an arrangement made whereby the pump will force both air and water into the tank whenever it is necessary, by simply operating a certain valve. Of course it is for you to determine when it is necessary to supply the air, and we do not depend on any automatic device of any kind to let us know this, as the height of the water line in the tank and the indicated pressure on the gauge is a sure indication as to whether it is necessary to supply air to the tank or not. We repeat, the simplest way is the best, and either of these two systems are the only systems that we recommend as a system that you can depend upon.

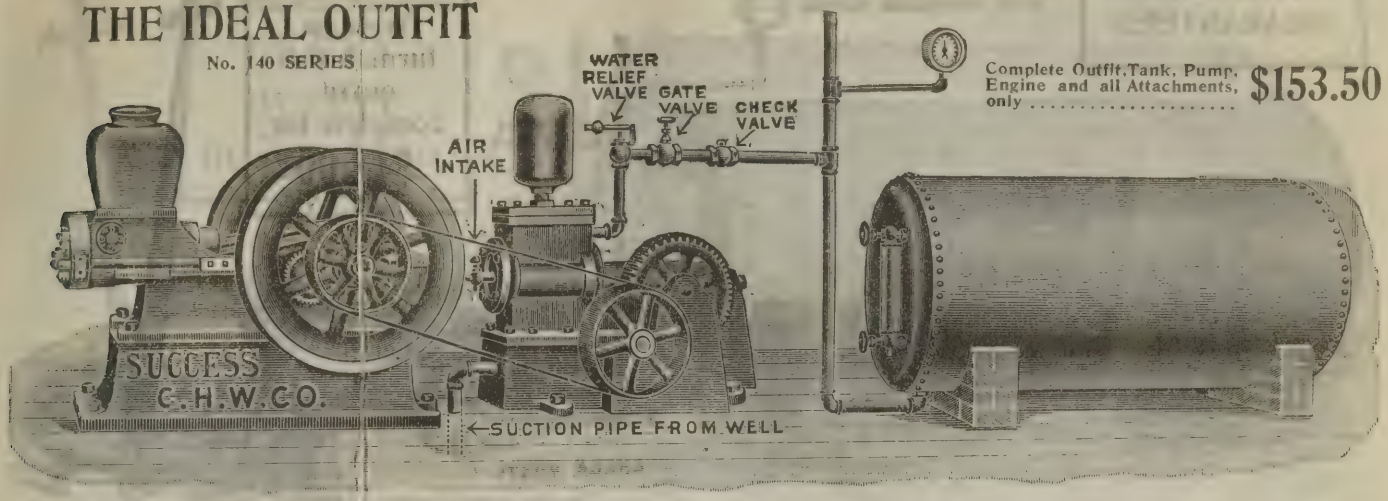
Hand Driven Outfits

Note that we are able to furnish you with either Hand Driven Pumps or Gasoline or Electric Motor Driven Pumps, and we can furnish you with any of these different methods of power with these systems in practically any size you may require. Every part of this apparatus is absolutely brand new and perfect. We furnish you a Guarantee with every outfit, and you are taking no chances whatever. For the ordinary residence and the average size family, a Hand Operated Pump gives good satisfaction, and really does not require very much exertion to supply sufficient water for the entire family. Ten minutes' pumping every day will fulfill all average requirements; and for the small outfit, owing to its simplicity and the slight amount of labor required to supply the water, we recommend a Hand Driven Outfit. Of course, if you want to get something that will do away entirely with the matter of pumping by hand, we recommend either the Electric Motor Driven Outfit or the Gasoline Engine Driven Outfit, and we can furnish these Engines complete in every detail—we will guarantee them to work perfectly and give you absolute satisfaction in every way. As before stated, we furnish you complete instructions and detailed blueprints covering the installation of every part of the apparatus, and you cannot possibly go wrong in the matter.

Gasoline Engine Driven Air Pressure Water Supply Systems

THE IDEAL OUTFIT

No. 140 SERIES



Complete Outfit, Tank, Pump, Engine and all Attachments, only **$153.50**

Positively no manual labor required, except to start the engine when it is necessary to pump water. With one of these outfits installed in your home the matter of water supply will be the least of your troubles. NO MANUAL EXERTION WHATEVER.

The engine furnished with these outfits are our special "Success" Gasoline Engine; positively the most simple and least liable to get out of order of any engine on the market at the present time. One month's trial of this engine will sufficiently convince you of its superiority over any other engine you may have used. We back these engines with our absolute guarantee as to just what they will do and if they do not come up to our representations to the fullest extent, you have the privilege to return them to us at our expense and we will refund your money in full.

We furnish these outfits in three different sizes. If you are not sure which size will be best suited to your requirements, drop us a line, give us a statement of the conditions that will have to be met, with how much water you will use per day, etc., and we will be glad to recommend an outfit for you that we will guarantee to meet your requirements.

The pump furnished in these outfits is just as high-grade in every way as the engine. We have made a careful study of this problem and we can safely say that we have secured for this line of outfits the best combination of engine and pump on the market at the present time, at any price. The pump furnished with these outfits is a Geared Belt Driven Pump; belt connection being made between engine and pump as shown.

The special construction of this pump has been tried and proven to give the highest point of efficiency and the design gives absolute rigidity and reduces vibration of the working parts to a minimum. This pump is positively one of the highest grade pumps on the market at the present time. No air pump of any kind is necessary with this pump, as the mere opening of the small valve in the back of the cylinder head will cause the pump to pump in both air and water at the same time. As soon as you have enough air pumped into the tank all you have to do is close this valve and the pump will pump water only. Every part of this apparatus is absolutely brand new and perfect in every way.

Remember, you are taking no chances, whatever, in ordering one of these outfits. They have been fully tried and proven and we know just what they will do. We give you a written guarantee with every one of these outfits; furnish you complete detailed instructions covering the entire apparatus, stating just how to run the engine and pump, etc., and you will be able to install the entire apparatus yourself with our complete plans. What a great convenience one of these outfits would be in your home, absolutely no pumping required, no more trouble in regard to the matter of supplying water to your plumbing fixtures than if you were located in a large city. The cost of gasoline and expense of keeping these outfits running is insignificant. As above stated, these outfits are made in three sizes.

The engine is built on the horizontal plan, which has been proven to be the best designed for a small engine of this kind. The piston lubricates better than on a vertical engine and it is much easier to adjust the connecting rod, valve gears or any part of the entire engine, which from constant use require attention. Every part of this engine is simple and requires very little adjustment. A careful examination of the cut will very easily demonstrate that the number of working parts on the engine have been reduced to the fewest possible number.

These engines are built on the four cycle principle, having an impulse at every second revolution. The piston on the first outward stroke draws through the intake valve a charge of gas which is automatically regulated by the throttle valve. On the return stroke of the piston the gas is compressed and ignited by an electric spark which drives the piston on the next outward or power stroke. The return of the piston drives out the burned gas through the exhaust valve; then the operation is repeated. If the work being performed does not require continuous ignition of gas in the cylinder, the governor will hold open the exhaust valve, and lock the admitting valve. In this manner the speed of the engine is controlled and the fuel consumption is regulated to the closest economy.

DURABILITY. Our Success Gasoline Engines are well and substantially constructed of the best material, by skilled mechanics, and are so durable that we have no hesitancy in extending to users our five-year-guarantee. The engines are built on the interchangeable plan; all parts being made from jigs and templates; each and every part of the same kind being perfect duplicates, so that in future years, repairs that may be required can readily be replaced without delay.

SIMPLICITY. All the working parts of the Success Gasoline Engines are exposed to view. The duty of each is plainly and readily understood by the users of the engine. The construction of our engine is such that they combine great strength and durability. It has been our constant study to do away with all extra parts and simplify the construction as much as possible.

Special Notice

The Pump furnished with this outfit is not designed for deep wells, the cylinder being entirely above the ground makes it impossible to raise water a greater vertical distance than 25 feet, this being the limit to which the atmospheric pressure will raise the water under ordinary conditions. If the level of the water in your well is greater than 25 feet, we recommend a regular deep well pump, one on which the cylinder can be lowered down into the water and the water forced up, instead of depending upon the atmospheric pressure to raise it. These deep well pumps you will find illustrated and listed elsewhere in this catalog. If the water in your well is more than 25 feet below the surface of the ground, do not fail to advise us. We will fully consider your conditions and we will line up an outfit for you, using proper size tank and proper horse power engine, and we will make you a complete proposition on the entire equipment. If you have not made up your mind as to what size tank you want, if you will give us some kind of an idea as to how much water is used per day, we will figure the proper capacity out for you.

Our No. 140 series Gasoline Engine Driven Air Pressure Outfit, as described above, is furnished in three different sizes. Please note that this equipment includes the following:—

Complete engine, ready for action, with all attachments.

Complete pump with all attachments.

Complete tank with all attachments. This to include pressure gauge, check valves, gate valve, water relief valve, etc., everything with the exception of the actual piping. It also includes belt of proper size to connect pump with engine.

Note the following special low prices on these complete outfits. Note that we also give in this list the price of the outfit without the tank in each case, so that in the event of your wanting a larger or smaller size tank than we have lined up in these outfits, you can make the change accordingly, and you can figure the tank in on the basis of the net prices, as quoted separately on these tanks, on the following pages:

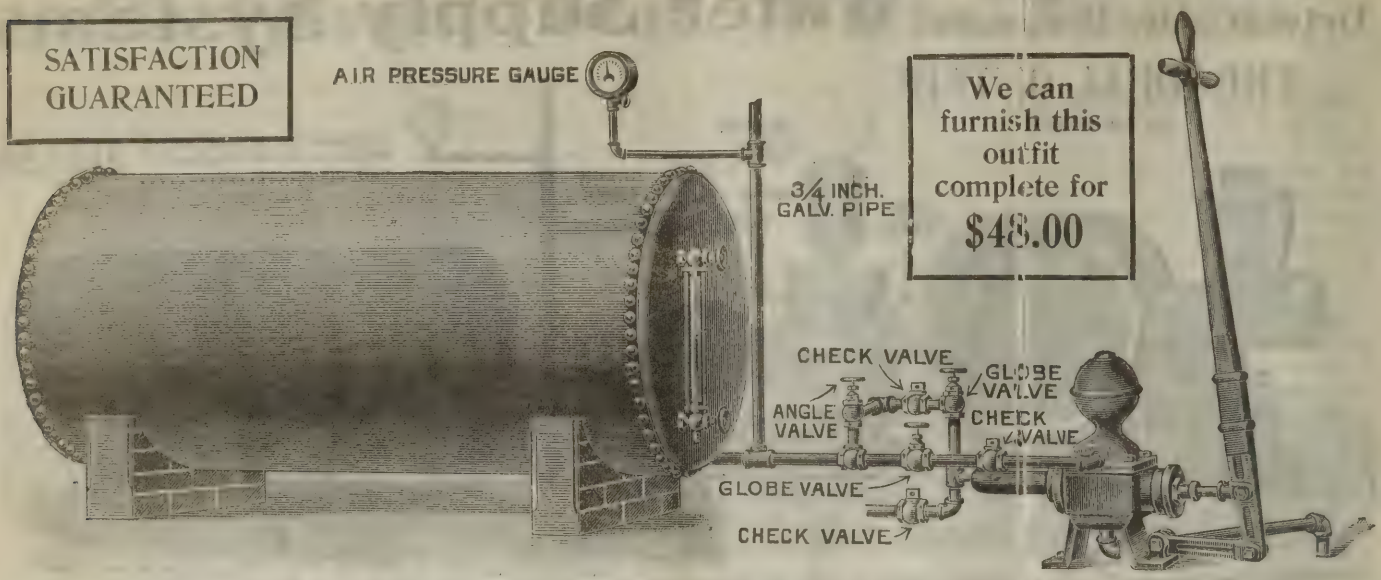
No.	H. P. of engine	Pump cap. gal. per hour	Weight of engine	Weight of pump	Size of pump Cylinder	Length of pump stroke	Size of suct. opening on pump	Size of discharge opening on pump	Size of pulley on pump	Ratio of gearing on pump	Size tank	Price eng. pump & attachments only. No tank	Price complete outfit
141	2	1200	500	250	3½"	5"	1¼"	1"	12x3"	5 to 1	36x8	$ 98.50	$153.50
142	4	2200	700	450	4½"	6"	2"	1¼"	14x4"	5 to 1	42x10	154.50	235.25
143	7	4200	1400	700	5½"	7"	2½"	2"	16x5"	5½ to 1	48x12	203.50	331.00

Electric Motor Driven Outfits

We can furnish above outfits with either Direct or Alternating Turn Motors instead of the Gasoline Engine, if desired and we will be glad to quote you fully on a complete Electrical Motor Driven Outfit on request. We are fully equipped to furnish you with everything to complete the entire installation of one of these Electrical Driven Outfits and we can give you complete instructions for installing. We guarantee satisfaction.

OUR COMBINATION AIR AND WATER PUMP OUTFITS

SATISFACTION GUARANTEED



We guarantee these outfits absolutely as to their practibility and proper working when installed according to our instructions. The feature of this outfit is the combination pump. It pumps both air and water. It does this, however, in different cylinders. You will note by a close study of the cut that there is a small projecting air cylinder at the end of the water cylinder both of these working in connection with the common lever handle and the pump can be regulated so that it can pump water only or both air and water at the same time. When you consider the fact that it is really only necessary to supply air to the tank at very long intervals, probably once a week or so, you will readily see that there is very little necessity of any automatic contrivance for regulating the air supply and you can just pump the air when it is necessary.

All you have to do is note the pressure in the tank and the height of the water line as indicated by the gauge glass on the tank. These are the only positive indications. The comparison of the pressure in the tank with the height of the water line will invariably tell you when it is necessary to pump in more air. When you are not pumping air with the air cylinder, the air piston simply runs idle in the cylinder, then when you want to supply air it simply requires the adjustment of two small valves and then operate the pump and you will be pumping air and water at the same time. When sufficient air has been supplied to the tank, simply reverse the two valves and the pump will pump water only. Nothing simpler could be devised. Does away with the unnecessary expense of separate air pump and we guarantee satisfaction.

Outfit No. AP21 with 24x6 foot tank. Tank designed to stand on end. Complete only.....$48.00

This outfit consists of our special air and water pump and a 150 gallon special Chicago Air Pressure Tank, 24 inches in diameter and 6 feet high. It is tapped to stand on end unless otherwise specified and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge, and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete as described..... **$48.00**

Outfit No. AP22 with 24x8 foot tank. Designed to lay horizontally. Complete only..... $55.00

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 24 inches in diameter, 8 feet high, tapped to lay horizontally unless otherwise specified, capacity, 195 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, ¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rod, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete, as described..... **$55.00**

Outfit No. AP23 with 30x6 foot tank. Designed to stand on end. Complete only..... $56.00

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 30 inches in diameter, 6 feet high, tapped to stand on end unless otherwise specified, capacity 220 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rod, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described..... **$56.00**

Outfit No. AP24 with 30x8 foot tank. Designed to lay horizontally. Complete only..... $65.00

This outfit consists of out special air and water pump and a special Chicago Air Pressure Tank, 30 inches in diameter, 8 feet long, tapped to lay horizontally unless otherwise specified, capacity, 295 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete, as described..... **$65.00**

Outfit No. AP25 with 30x10 foot tank. Designed to lay horizontally. Complete only..... $72.00

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 30 inches in diameter by 10 feet, tapped to lay horizontally unless otherwise specified, capacity, 365 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described..... **$72.00**

Outfit No. AP26 with 36x6 foot tank. Designed to stand on end. Complete only..... $67.00

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 36 inches in diameter by 6 feet, tapped to stand on end unless otherwise specified, capacity, 315 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, guard rods and gauge cocks, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described..... **$67.00**

Outfit No. AP27 with 36x8 foot tank. Designed to lay horizontally. Complete only..... $77.00

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 36 inches in diameter by 8 feet, tapped to lay horizontally unless otherwise specified, capacity, 220 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and the various ¼-inch fittings and couplings required to fit into the air pipe.
Price of this outfit, complete as described..... **$77.00**

Outfit No. AP 28 with 42x8 foot tank. Designed to lay horizontally. Complete only..... $88.00

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 42 inches in diameter by 8 feet, tapped to lay horizontally unless otherwise specified, capacity, 575 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with gauge cocks and guard rods, pressure gauge and two ¼-inch check valves and water glass, and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described..... **$88.00**

Outfit No. AP29 with 42x14 foot tank. Designed to lay horizontally. Complete only..... $131.00

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 42 inches in diameter by 14 feet, tapped to lay horizontally unless otherwise specified, capacity, 1,000 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch Jenkins disc Y valve, 1¼-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two ¼-inch disc valves and the various ¼-inch fittings and couplings required to connect into the air pipe.
Price of this outfit, complete as described..... **$131.00**

NEW CHICAGO AIR PRESSURE TANKS. LARGE SIZE.

Diameter in Feet.	Length in Feet.	Capacity in Gals.	Price.
5	20	2950	$325.00
5	22	3250	340.00
5	24	4525	350.00
6	24	5075	445.00
6	30	6350	500.00
7	24	6900	570.00
7	28	8060	600.00
8	36	13500	725.00

We have a number of first-class second-hand tanks in stock at the present time suitable for use with the above pumping outfit on which we quote the following net cash prices, subject to prior sale.

One 36″x6′, 315 gallon capacity, extra heavy, tested to 150 lbs. presssure, guaranteed..... **$40.00**

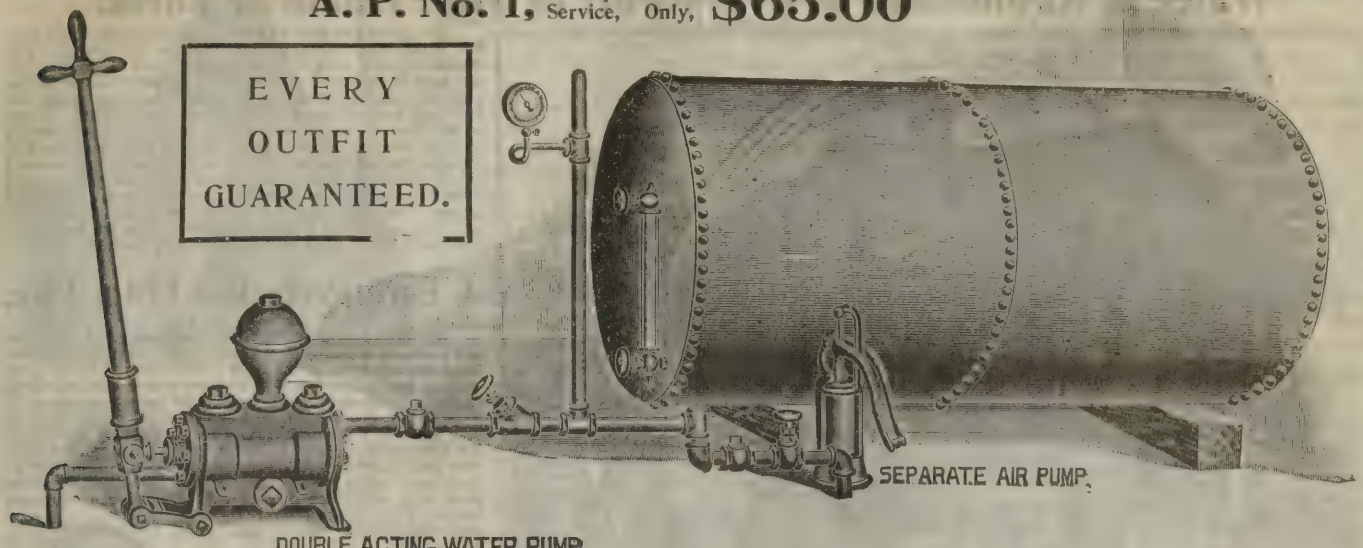
One 36″x12′, 630 gallon capacity, same description and test as above. **62.00**

One 48″x28′, 2,600 gallon capacity, horizontal seams, double riveted, same description and test as above..... **200.00**

One 72″x16′, 3,550 gallon capacity, horizontal seams, double riveted, tested to 100 lbs. and guaranteed..... **200.00**

OUR SEPARATE AIR AND WATER PUMP SYSTEM

A. P. No. 1, Complete for Service, Only, $65.00



Water in abundance in every part of your house. Every convenience of a modern city residence in your home. You can supply hot and cold water to your bath room, to your kitchen sink, to your laundry, water under pressure both hot and cold any place in your house. Ten minutes' pumping every day fulfils all average requirements. This is just the right size outfit for the average family.

Outfit A. P No. 1 consists of the following:—

One Chicago air pressure tank, 30 inches in diameter by 8 feet long, tapped to lay horizontally; total capacity 295 gallons.

One special horizontal cylinder double acting hand force pump, brass lined, as shown in Water Pump Figure C. C. in our catalog.

One No. 600 hand air force pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One 1-inch gate valve.
One 1-inch check valve.
One ¾-inch globe valve for air pipe.
One ¾-inch check valve for air pipe.
One 1¼-inch foot valve and strainer.

Price for this outfit complete as described every item strictly brand new and perfect, tank guaranteed air tight $65.00

Note that the pump furnished with all outfits on this page is our Horizontal Cylinder Pump. This pump is not adapted for taking water from wells where the water is over 20 feet below the top of the well; where you have a well in which the water is lower down than this, it will be necessary for you to use one of our deep well force pumps, with which the cylinder can be lowered down in the water and the water forced up. If you have a deep well, be sure to advise us and we will line up a special outfit for you with a deep well pump that we will recommend to give you satisfaction.

OUTFIT No. A. P. 2.

Complete outfit, same as above, with 36-inch x 8-foot tank, only $78.00

This outfit consists of a special Chicago air pressure tank 36 inches x 8 feet, capacity 425 gallons.

One special horizontal cylinder double acting hand force pump, brass lined.
One No. 600 hand air force pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One 1-inch gate valve.
One 1-inch check valve.
One ¾-inch globe valve for the air pipe.
One ¾-inch check valve for the air pipe.
One 1¼-inch foot valve and strainer.

Special price of this outfit $78.00

OUTFIT No. A. P. 5.

This outfit consists of the following:—

One new extra heavy Chicago air pressure tank, tested to 125 pounds air pressure and guaranteed tight. Tank 42 inches in diameter, 14 feet long, capacity 1,000 gallons.
One special horizontal cylinder, double acting, brass lined force pump.
One No. 600 hand air pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One special 1-inch Jenkins disc valve for discharge pipe.
One 1-inch check valve.
One ¾-inch check valve for air pipe.
One ¾-inch globe valve for air pipe.

Price of above outfit $135.99

OUTFIT No. A. P. 6.

This outfit consists of the following:—

One special Chicago air pressure tank, 42 inches by 16 feet, capacity 1,150 gallons, tested to 125 pounds air pressure and guaranteed tight.
One special double acting horizontal cylinder, brass lined force pump.
One No. 600 hand air pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One special 1-inch Jenkins disc valve for discharge pipe.
One 1-inch check valve.
One ¾-inch check valve for air pipe.
One ¾-inch globe valve for air pipe.

Price of above outfit $142.00

OUTFIT No. A. P. 3.

Complete outfit, same as above, with 36-inch x 12-foot tank $93.00

This outfit consists of a special Chicago air pressure tank 36 inches x 12 feet, capacity 530 gallons.

One special horizontal cylinder double acting hand force pump, brass lined.
One No. 600 hand air force pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One 1-inch gate valve.
One 1-inch check valve.
One ¾-inch globe valve for the air pipe.
One ¾-inch check valve for the air pipe.
One 1¼-inch foot valve and strainer.

Price of this outfit $93.00

OUTFIT No. A. P. 7.

This outfit consists of the following:—

One special Chicago air pressure tank, 48 inches by 16 feet, capacity 1,500 gallons, tested to 125 pounds air pressure and guaranteed tight.
One special horizontal cylinder, double acting, brass lined force pump.
One No. 600 hand air pump.
One air pressure gauge.
One water gauge with water glass and guard rods.
One special 1-inch Jenkins disc valve for discharge pipe.
One 1-inch check valve.
One ¾-inch check valve for air pipe.
One ¾-inch globe valve for air pipe.

Price of above outfit 175.00

OUTFIT No. A. P. 8.

This outfit consists of the following:—

One special Chicago air pressure tank, 42 inches in diameter, 20 feet long, capacity 1,880 gallons, tested to 125 pounds air pressure and guaranteed tight.
One special horizontal cylinder, double acting brass lined force pump.
One No. 600 hand air pump.
One water gauge with water glass and guard rods.
One special 1-inch Jenkins disc valve for discharge pipe.
One 1-inch check valve.
One ¾-inch check valve for air pipe.
One ¾-inch globe valve for air pipe.

Price of above outfit $220.00

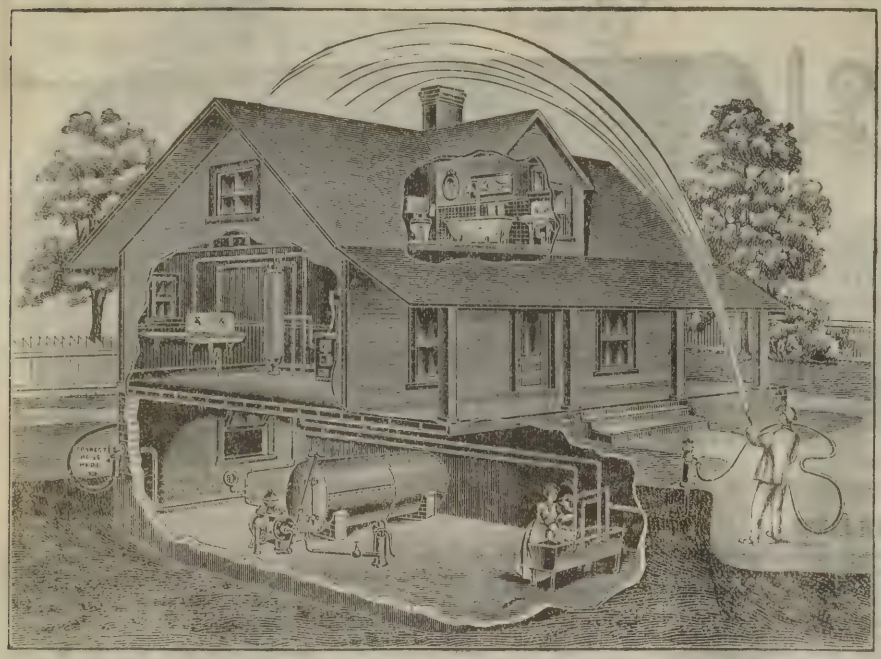
PRICES OF OUR CHICAGO AIR PRESSURE TANKS, NEW, FOR AIR PRESSURE WATER SUPPLY SYSTEMS. PRICES ARE F. O. B. OUR FACTORY NEAR CHICAGO.

Diameter in Inches	Length in feet.	THICKNESS. Shell.	Heads.	Weights.	Capacity in Gallons.	Net Price	Diameter in inches	Length in feet	THICKNESS Shell.	Head.	Weight.	Capacity in Gallons.	Price.
24	6	1/4	1/4	445	145	$ 30.00	42	10	1/4	1/4	1,650	720	$ 84.75
24	8	1/4	1/4	560	195	37.50	42	12	1/4	1/4	1,900	865	105.00
24	10	1/4	1/4	675	245	42.00	42	14	1/4	1/4	2,200	1,000	116.25
30	6	1/4	1/4	560	220	39.00	42	16	1/4	1/4	2,400	1,150	126.00
30	8	1/4	1/4	700	295	48.00	48	10	1/4	1/4	2,066	1,000	120.00
30	10	1/4	1/4	870	365	54.75	48	12	1/4	1/4	2,320	1,130	133.50
30	12	1/4	1/4	900	440	61.50	48	14	1/4	1/4	2,610	1,300	146.25
36	6	1/4	1/4	750	315	49.50	48	16	1/4	1/4	2,900	1,500	162.75
36	8	1/4	1/4	900	420	58.50	48	18	1/4	1/4	3,600	1,700	187.50
36	10	1/4	1/4	1,050	525	69.00	48	20	1/4	1/4	3,950	1,880	210.00
36	12	1/4	1/4	1,200	630	71.25	48	24	1/4	1/4	4,650	2,260	233.25
42	8	1/4	1/4	1,450	575	71.25							

Manheads $10.00 extra. Water Gauges, etc., are not included in the above prices. All tanks tested to 125 lbs. air pressure, and guaranteed.

MODERN AIR PRESSURE WATER SUPPLY SYSTEM

Water in Abundance in Every Part of Your Home or Farm.

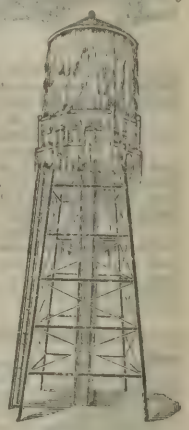


No more freezing of elevated tanks out doors with the attendant damage and expense for repairs, etc. Water almost ice-cold in summer and no danger of freezing in winter. No more stagnant water in the summertime, as is the case when you are using the elevated tank located out doors in the hot sun. Think of it! Every convenience of the modern city residence in your country home. Even though your home may be located far out in the country and isolated miles away from any municipal water supply system or sewerage system, as are to be found in modern towns and large cities, it is positively no longer necessary to be without the modern conveniences which are to be had in the most up-to-date and modern city homes.

A Sure Protection From Fire.

Did you ever stop to think of the great risk you are running without a water supply system of some kind for use in case of fire? How many billions of dollars are lost every year in fires where one of these modern systems in the home would have prevented it? Suppose a fire should get a reasonably good start in any place in your home; no water available except in buckets from the well. What kind of a chance have you got to put out any sized fire? You might just as well step outside and watch the fire until it burns itself out, and when fires of this kind start in country homes, when it is all over there generally is not much left to look at.

You positively should not be without a system of this kind in your home for one moment. An elevated tank in the attic has some advantages over carrying water from a well, but its field is very limited indeed. It amounts to almost nothing as far as fire protection is concerned, as you can get very little pressure out of it, and, all things considered, one of these modern air pressure systems is certainly the only practical system to install in your home.



Elevated tank frozen up. A common occurrence.

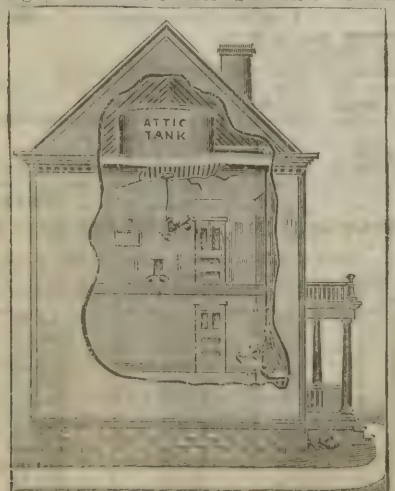
Compare the conditions referred to above—a fire in a country home without any means of water supply, with the opposite conditions, where a modern system has been installed. With water piped throughout the house and faucets properly placed at various points where they are most convenient and accessible, it is almost impossible for any fire to get any kind of a start. A large tank filled with water under a high pressure in the basement and the piping to be the proper size to supply a good stream of water and a good sized hose with nozzle, etc., ready for use in the basement, simply connect this hose to any of the faucets, turn on the valve and you can have the fire out in a very few moments.

Every Modern Convenience Right in the Home.

The feature of fire protection referred to above, which is, of course, only a very striking advantage, is really only a small part of the great benefits you derive from one of these outfits installed in your home. Just imagine the convenience of having running water in every part of your entire house, wherever you wish to carry the piping. Then consider the small investment required. Simply the cost of one of these outfits as listed on these pages. Note the very low prices at which we are offering the complete outfits ready for immediate service. There is positively no excuse for anyone being without one of these outfits. All the advantages of the modern bath room, the modern laundry, the modern kitchen, everything up-to-date, and we can furnish you all necessary material to completely equip your home with all of these conveniences for a very small amount of money. Complete plans and instructions for installing every outfit. You cannot possibly go wrong. We assist you at every point, loan you the necessary tools and help you out every way we possibly can.

Write For Our Estimate.

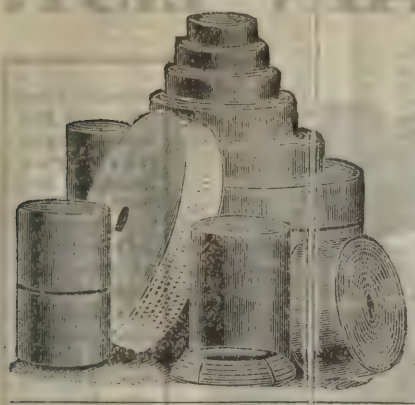
Are you in need of one of these systems? Get our information blank at once. Fill it out carefully and return it to us, giving us the necessary information, and we will immediately refer the matter to our engineering department and we will line up a complete system for you that we will guarantee to fulfill your requirements completely and give you absolute satisfaction in every way. Our prices are far below anything that have ever before been offered in this line.



Attic Tank Not Altogether Satisfactory.

OUR BELTING DEPARTMENT.

WE CARRY IN STOCK THREE COMPLETE LINES OF RUBBER BELTING.



Each grade is carefully made up of the best canvas and rubber that can be secured with the view of giving our customers the best possible values and satisfaction. In making your selection we earnestly advise that you note carefully the general purposes for which we recommend the use of our various grades and order accordingly. By following this suggestion we can without a shadow of doubt, supply your requirements and will guarantee our different grades to give full satisfaction if used for the purpose designated.

ENDLESS RUBBER BELT. We show the usual widths and lengths generally carried in stock, which are described under No. 3-A-7. In addition we can make up any width or length in either of our Standard, Star or Premier brands that you may require. These would be made up specially on your order and shipped direct from our factory. Always allow three feet extra on account of the lap, and bear in mind that owing to the fact that belts of this kind are made up specially, it will cause a delay of about one week.

STITCHED RUBBER BELTS. These we can also furnish in either Standard, Star or Premier brands, which would necessarily make up specially, and would therefore be subject to the same delay in shipping as the endless belts. For stitching, be sure and allow ten per cent extra in cost to cover stitching. The stitching, which runs the long way of the belt, is done before the outer rubber covering is applied and serves to greatly strengthen the belt and increase its lasting qualities.

STANDARD BRAND RUBBER BELT.

No. 3-A-1. This belt is recommended only for light work, and is generally termed an agricultural belt. It can also be used for conveyor purposes, but only for light loads.

The best low priced belt on the market.

Width Inches	2 Ply Per Ft. Cents	3 Ply Per Ft. Cents	4 Ply Per Ft. Cents	5 Ply Per Ft. Cents	6 Ply Per Ft. Cents
1	1½	2½			
1½	2½	3½			
2	3½	4½	5½		
2½	4½	5½	6½		
3	5	6½	8		
3½		7½	9½		
4		8½	10½		
4½		10	12		
5		11	13		
6		13	16	19	
7		15	18½	23	
8		18	21	26	32
9			25	30	36
10			27	33	40
12			33	41	49
14			33	48	58

STAR BRAND RUBBER BELT.

No. 3-A-2. The best general purpose belt on the market for light and medium power and conveying purposes. We do not recommend this belt for heavy work, such as saw mills or other work where belting is required to run constantly and transmit heavy horse power. But for other general purposes it will give you first-class service.

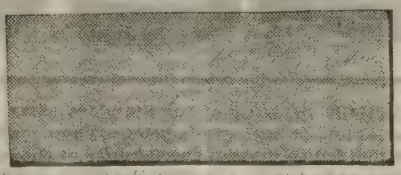
Width Inches	3 Ply Per Ft. Cents	4 Ply Per Ft. Cents	5 Ply Per Ft. Cents	6 Ply Per Ft. Cents
1	3½	4½		
1½	4	5½		
1½	4½	6		
2	7½	7½		
2½	7½	9½		
3	9½	11	13½	
3½	10½	13	16	
4	12	15	18	22
5		18	23	27
6		22	27	33
7		25	32	38
8		30	37	54
9		33	41	50
10		38	47	56
12		46	57	68
14		54	67	82
16		62	79	94

PREMIER BRAND RUBBER BELT.

No. 3-A-3. We recommend this belt for all heavy power transmission. It is used extensively in saw mills, quarries and other places where a belt is subjected to hard usage. Bear in mind that in order to produce your full required horse power that a good belt, one that is strong and tough, is just as necessary as an engine that will deliver the power required. Therefore if you require a first class belt, buy our Premier Brand and by doing so you will do away with your belt troubles.

Width Inches	4 Ply. Per Ft.	5 Ply Per Ft.	6 Ply Per Ft.
4	$0.21	$0.26	$0.32
5	.26	.33	.39
6	.31	.39	.45
7	.37	.46	.55
8	.42	.53	.63
9	.48	.59	.71
10	.56	.67	.80
11	.59	.74	.89
12	.65	.81	.98
13	.71	.88	1.07
14	.77	.96	1.16
15	.83	1.04	1.25
16	.89	1.11	1.34

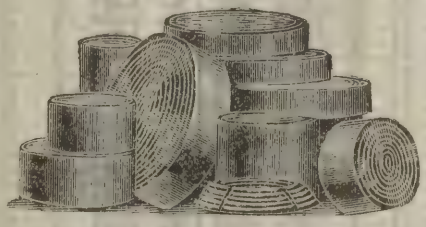
RED STITCHED CANVAS BELT.



No. 3-A-4. Brand new and guaranteed. Made of heavy canvas, woven very hard, giving it great strength. The rows of stitching are very close so that the plies will not separate. It is painted red with a special composition which makes it waterproof, and it is not affected by heat or cold. This belt is thoroughly stretched during the process of manufacture. A belt for saw mills, mines, quarries, etc.

Width Inches	4 Ply Per Ft. Cents	6 Ply Per Ft. Cents	Width Inches	4 Ply Per Ft. Cents	6 Ply Per Ft. Cents
1½	4		8	21½	32
2	5½		9	25	36
2½	7		10	27	40
3	8½	12	12	33	48
3½	9½	13½	13		54
4	11	16	14		58
4½	12	18	15		62
5	13½	20	16		66
6	16½	24	18		74
7	19	26			

NEW LEATHER BELTS.



No. 3-A-5. We are constantly buying at Manufacturers', Sheriff's, Receivers' and other sales, high grade Leather Belting, suitable for factories, mills and all general purposes. Our method of buying in this line enables us to offer leather belting, much of which is the product of the best manufacturers in this line. We guarantee satisfaction on any leather belt that you buy from us. We will ship on approval, and if belt is not satisfactory, return it to us after inspection.

Note—If you require a belt to run on quarter twist, add 20 per cent.

Width Inches	Single Thick Per Ft.	Double Thick Per Ft.	Width Inches	Single Thick Per Ft.	Double Thick Per Ft.
1	$0.06		4	.24	$0.48
1½	.07½		4½	.27	.54
1½	.09		5	.30	.60
1¾	.10½		6	.36	.72
2	.12	.24	7	.42	.84
2½	.14	.28	8	.48	.96
2½	.15	.30	9	.59	1.19
2½	.17	.34	10	.65	1.30
3	.18	.36	12		1.55
3½	.21	.42	14		1.80

SECOND HAND LEATHER BELTS.

We have but little trouble to convince people who have been in the habit of purchasing second hand leather belts, of the desirability of using them even in preference to buying new belts.

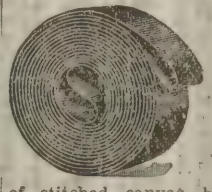
We rebuild second hand belts and ship practically new belts, with the exception that the stock, of course, is second hand.

We have in our employ an expert belt man who has made a life-long study of furnishing large, second-hand belts to people who know what belts mean. Many of our customers who have been here in the house will recognize the truth of this statement, and will know that the knowledge possessed by our belt man is second to none in the business.

We make these belts endless to order, and in **ordering these Endless Belts be sure to allow three feet for lap.** We will rivet these belts, making nominal charge for same. **No. 3-A-6.**

Width Inches	Single Thick Per Ft.	Double Thick Per Ft.	Width Inches	Single Thick Per Ft.	Double Thick Per Ft.
1	$0.04½		8		$0.76
1½	.06		9		.86
1½	.07		10		.96
1¾	.08		11		1.05
2	.09½	.19	12		1.15
2½	.10½	.21	13		1.26
2½	.12	.24	14		1.35
2½	.13	.26	15		1.44
3	.14	.28	16		1.54
3½	.16½	.33	17		1.63
4	.19	.38	18		1.72
4½	.21	.42	19		1.83
5	.24	.48	20		1.92
5½	.26	.52	21		2.00
6	.29	.58	22		2.10
6½	.62		23		2.20
7	.66		24		2.30

ENDLESS STITCHED RUBBER BELTS.



No. 3-A-7. We offer these belts to fill the demand for endless rubber thresher belts, which are used to considerable extent in some localities. These belts are made of the best material and workmanship. However, rubber belts are not guaranteed for thresher purposes and for this purpose we recommend the use of stitched canvas belts. Actual lengths three feet shorter than specified. **All 4 Ply.**

Width Inches	Length Feet 120	130	140	150	160
6	$30.00	$32.50	$35.00	$37.50	$40.00
7	34.80	37.70	40.60	43.50	46.40
8	40.80	44.20	47.60	51.00	54.40
9	51.60	55.90	60.30	64.70	69.00

ENDLESS RED STITCHED CANVAS BELTS.

No. 3-A-8. Brand new and guaranteed. These belts are especially recommended for threshers or for any other purpose where a belt is exposed to the weather. Actual lengths are three feet shorter than specified as it requires the price of three feet for lap and labor in making belts endless. **All 4 Ply.**

Width Inches	Length Feet 80	100	120	130	140	150	160
6	$13.20	$16.50	$19.75	$21.40	$23.00	$24.75	$26.40
7	15.20	19.00	22.80	24.70	26.60	28.50	30.40
8	17.20	21.50	25.80	27.95	30.10	32.25	34.40
9	20.00	25.00	30.00	32.30	35.00	37.50	40.00

RUBBER BELT BARGAIN LIST.

Any of the belts contained in this list are without a question a bargain, and should you purchase one of these belts and it is not satisfactory you can return it to us.

Should you not find the exact length that you require, we will willingly cut any longer belt where it does not leave us with too short a piece, and for this reason the prices quoted on remnants are per foot.

These remnants are all brand new and are partially made up of our Standard, Star, and Premier brands. In addition to the regular brands of belting we are constantly buying special lots of high grade belts. These special lots you will understand, we cannot put out under our regular brands, and we are therefore obliged to make a special offer of them.

In offering these belts we make no distinction as to grade, but offer the various widths and plys at a low flat price. We would suggest that in ordering belts from this list that you state the purpose for which it is to be used. The belts contained in our remnant list sell very rapidly, and sending in orders for belts selected from this list, we urge you to give a first, second and third choice. This will within all probability assure you of getting one of these choices without making it necessary for us to delay the order on account of writing you that we are out of the belt that you had selected.

In ordering refer to Rubber Belt Bargain List.

	Width Inches	Ply	Length Feet	Price Per Ft.
No. A- 1	1	2	20	$0.01½
No. A- 2	1	2	24	.01½
No. A- 3	1	2	27	.01½
No. A- 4	1	2	30	.01½
No. A- 5	1	2	33	.01½
No. A- 6	1	2	35	.01½
No. A- 7	1	2	41	.01½
No. A- 8	1	2	46	.01½
No. A- 9	1	2	50	.01½
No. A- 10	1	2	55	.01½
No. A- 11	1	2	57	.01½
No. A- 12	1	2	60	.01½
No. A- 13	5	3	20	.09½
No. A- 14	5	3	24	.09½
No. A- 15	5	3	27	.09½
No. A- 16	5	3	29	.09½
No. A- 17	5	3	31	.09½
No. A- 18	5	3	36	.09½
No. A- 19	5	3	40	.09½
No. A- 20	5	3	45	.09½
No. A- 21	5	3	50	.09½
No. A- 22	5	3	53	.09½
No. A- 23	5	3	57	.09½
No. A- 24	5	3	61	.09½
No. A- 25	5	3	69	.09½
No. A- 26	5	3	76	.09½
No. A- 27	5	3	85	.09½
No. A- 28	6	3	20	.10½
No. A- 29	6	3	21	.10½
No. A- 30	6	3	24	.10½
No. A- 31	6	3	27	.10½
No. A- 32	6	3	30	.10½
No. A- 33	6	3	31	.10½
No. A- 34	6	3	33	.10½
No. A- 35	6	3	37	.10½
No. A- 36	6	3	42	.10½
No. A- 37	6	3	46	.10½
No. A- 38	6	3	49	.10½
No. A- 39	6	3	50	.10½
No. A- 40	6	3	57	.10½
No. A- 41	6	3	59	.10½
No. A- 42	6	3	60	.10½
No. A- 43	6	3	63	.10½
No. A- 44	6	3	65	.10½
No. A- 45	2	4	15	.04½
No. A- 46	2	4	16	.04½
No. A- 47	2	4	20	.04½
No. A- 48	2	4	23	.04½
No. A- 49	2	4	27	.04½
No. A- 50	2	4	30	.04½
No. A- 51	2	4	31	.04½
No. A- 52	2	4	36	.04½
No. A- 53	2	4	42	.04½
No. A- 54	2	4	45	.04½
No. A- 55	2	4	49	.04½
No. A- 56	2	4	53	.04½
No. A- 57	2	4	54	$0.04½
No. A- 58	2	4	57	.04½
No. A- 59	2	4	60	.04½
No. A- 60	1½	2	17	.02
No. A- 61	1½	2	19	.02
No. A- 62	1½	2	21	.02
No. A- 63	1½	2	25	.02
No. A- 64	1½	2	27	.02
No. A- 65	1½	2	29	.02
No. A- 66	1½	2	31	.02
No. A- 67	1½	2	34	.02
No. A- 68	1½	2	40	.02
No. A- 69	1½	2	45	.02
No. A- 70	1½	2	50	.02
No. A- 71	1½	2	54	.02
No. A- 72	1½	2	65	.02
No. A- 73	1½	2	16	.02½
No. A- 74	1½	2	19	.02½
No. A- 75	1½	2	20	.02½
No. A- 76	1½	2	21	.02½
No. A- 77	1½	2	23	.02½
No. A- 78	1½	2	26	.02½
No. A- 79	1½	2	27	.02½
No. A- 80	1½	2	30	.02½
No. A- 81	1½	2	31	.02½
No. A- 82	1½	2	34	.02½
No. A- 83	1½	2	36	.02½
No. A- 84	1½	2	39	.02½
No. A- 85	1½	2	41	.02½
No. A- 86	1½	2	45	.02½
No. A- 87	1½	2	47	.02½
No. A- 88	1½	2	52	.02½
No. A- 89	1½	2	60	.02½
No. A- 90	1½	2	80	.02½
No. A- 91	2	2	15	.03½
No. A- 92	2	2	18	.03½
No. A- 93	2	2	20	.03½
No. A- 94	2	2	22	.03½
No. A- 95	2	2	24	.03½
No. A- 96	2	2	25	.03½
No. A- 97	2	2	28	.03½
No. A- 98	2	2	30	.03½
No. A- 99	2	2	33	.03½
No. A-100	2	2	37	.03½
No. A-101	2	2	40	.03½
No. A-102	2	2	42	.03½
No. A-103	2	2	48	.03½
No. A-104	2	2	56	.03½
No. A-105	2	2	63	.03½
No. A-106	2	2	71	.03½
No. A-107	2½	2	16	.04
No. A-108	2½	2	17	.04
No. A-109	2½	2	21	.04
No. A-110	2½	2	24	.04
No. A-111	2½	2	28	.04
No. A-112	2½	2	30	.04
No. A-113	2½	2	32	$0.04
No. A-114	2½	2	34	.04
No. A-115	2½	2	36	.04
No. A-116	2½	2	37	.04
No. A-117	2½	2	39	.04
No. A-118	2½	2	41	.04
No. A-119	2½	2	43	.04
No. A-120	2½	2	47	.04
No. A-121	2½	2	50	.04
No. A-122	2½	2	51	.04
No. A-123	2½	2	53	.04
No. A-124	2½	2	57	.04
No. A-125	2½	2	62	.04
No. A-126	2½	2	71	.04
No. A-127	2½	2	78	.04
No. A-128	3	2	20	.04½
No. A-129	3	2	22	.04½
No. A-130	3	2	24	.04½
No. A-131	3	2	27	.04½
No. A-132	3	2	29	.04½
No. A-133	3	2	31	.04½
No. A-134	3	2	34	.04½
No. A-135	3	2	37	.04½
No. A-136	3	2	41	.04½
No. A-137	3	2	43	.04½
No. A-138	3	2	45	.04½
No. A-139	3	2	47	.04½
No. A-140	3	2	49	.04½
No. A-141	3	2	56	.04½
No. A-142	3	2	63	.04½
No. A-143	3	2	74	.04½
No. A-144	1	3	15	.01½
No. A-145	1	3	20	.01½
No. A-146	1	3	25	.01½
No. A-147	1	3	27	.01½
No. A-148	1	3	30	.01½
No. A-149	1	3	35	.01½
No. A-150	1	3	42	.01½
No. A-151	1	3	46	.01½
No. A-152	1	3	49	.01½
No. A-153	1	3	54	.01½
No. A-154	1	3	64	.01½
No. A-155	1½	3	16	.03
No. A-156	1½	3	17	.03
No. A-157	1½	3	19	.03
No. A-158	1½	3	23	.03
No. A-159	1½	3	25	.03
No. A-160	1½	3	27	.03
No. A-161	1½	3	31	.03
No. A-162	1½	3	34	.03
No. A-163	1½	3	37	.03
No. A-164	1½	3	40	.03
No. A-165	1½	3	41	.03
No. A-166	1½	3	43	.03
No. A-167	1½	3	44	.03
No. A-168	1½	3	51	.03
No. A-169	1½	3	55	$0.03
No. A-170	2	3	19	.03½
No. A-171	2	3	21	.03½
No. A-172	2	3	24	.03½
No. A-173	2	3	27	.03½
No. A-174	2	3	33	.03½
No. A-175	2	3	35	.03½
No. A-176	2	3	37	.03½
No. A-177	2	3	39	.03½
No. A-178	2	3	44	.04
No. A-179	2	3	47	.03½
No. A-180	2	3	50	.03½
No. A-181	2	3	55	.03½
No. A-182	2	3	59	.03½
No. A-183	2	3	64	.03½
No. A-184	2	3	72	.03½
No. A-185	3	3	15	.06
No. A-186	3	3	17	.06
No. A-187	3	3	19	.06
No. A-188	3	3	20	.06
No. A-189	3	3	22	.06
No. A-190	3	3	25	.06
No. A-191	3	3	29	.06
No. A-192	3	3	30	.06
No. A-193	3	3	34	.06
No. A-194	3	3	37	.06
No. A-195	3	3	39	.06
No. A-196	3	3	41	.06
No. A-197	3	3	44	.06
No. A-198	3	3	47	.06
No. A-199	3	3	49	.06
No. A-200	3	3	54	.06
No. A-201	3	3	57	.06
No. A-202	3	3	60	.06
No. A-203	3	3	63	.06
No. A-204	3	3	65	.06
No. A-205	3	3	69	.06
No. A-206	3	3	70	.06
No. A-207	3½	3	16	.06½
No. A-208	3½	3	19	.06½
No. A-209	3½	3	20	.06½
No. A-210	3½	3	23	.06½
No. A-211	3½	3	25	.06½
No. A-212	3½	3	26	.06½
No. A-213	3½	3	29	.06½
No. A-214	3½	3	30	.06½
No. A-215	3½	3	34	.06½
No. A-216	3½	3	35	.06½
No. A-217	3½	3	37	.06½
No. A-218	3½	3	39	.06½
No. A-219	3½	3	41	.06½
No. A-220	3½	3	43	.06½
No. A-221	3½	3	47	.06½
No. A-222	3½	3	50	.06½
No. A-223	3½	3	59	.06½
No. A-224	3½	3	64	.06½

RUBBER BELT BARGAIN LIST—Continued.

	Width Inches	Ply	Length Feet	Price Per Ft.
No. A-225	3½	3	70	$0.06½
No. A-226	3½	3	79	.06½
No. A-227	3½	3	83	.06½
No. A-228	3½	3	92	.06½
No. A-229	4	3	17	.07½
No. A-230	4	3	19	.07½
No. A-231	4	3	24	.07½
No. A-232	4	3	25	.07½
No. A-233	4	3	30	.07½
No. A-234	4	3	34	.07½
No. A-235	4	3	39	.07½
No. A-236	4	3	40	.07½
No. A-237	4	3	45	.07½
No. A-238	4	3	47	.07½
No. A-239	4	3	50	.07½
No. A-240	4	3	55	.07½
No. A-241	4	3	60	.07½
No. A-242	4	3	65	.07½
No. A-243	4	3	105	.07½
No. A-244	4½	3	16	.08¼
No. A-245	4½	3	20	.08¼
No. A-246	4½	3	25	.08¼
No. A-247	4½	3	29	.08¼
No. A-248	4½	3	31	.08¼
No. A-249	4½	3	35	.08¼
No. A-250	4½	3	37	.08¼
No. A-251	4½	3	40	.08¼
No. A-252	4½	3	45	.08¼
No. A-253	4½	3	50	.08¼
No. A-254	4½	3	63	.08¼
No. A-255	4½	3	77	.08¼
No. A-256	4½	3	85	.08¼
No. A-257	2½	4	15	.05½
No. A-258	2½	4	19	.05½
No. A-259	2½	4	20	.05½
No. A-260	2½	4	22	.05½
No. A-261	2½	4	26	.06
No. A-262	2½	4	29	.05½
No. A-263	2½	4	31	.05½
No. A-264	2½	4	34	.05½
No. A-265	2½	4	35	.05½
No. A-266	2½	4	36	.05½
No. A-267	2½	4	39	.05½
No. A-268	2½	4	42	.05½
No. A-269	2½	4	47	.05½
No. A-270	2½	4	52	.05½
No. A-271	2½	4	55	.05½
No. A-272	2½	4	57	.05½
No. A-273	2½	4	60	.05½
No. A-274	2½	4	61	.05½
No. A-275	2½	4	66	.05½
No. A-276	2½	4	69	.05½
No. A-277	2½	4	72	.05½
No. A-278	2½	4	75	.05½
No. A-279	3	4	16	.07
No. A-280	3	4	17	.07
No. A-281	3	4	19	.07
No. A-282	3	4	24	.07
No. A-283	3	4	27	.07
No. A-284	3	4	30	.07
No. A-285	3	4	33	.07
No. A-286	3	4	36	.07
No. A-287	3	4	39	.07
No. A-288	3	4	40	.07
No. A-289	3	4	44	.07
No. A-290	3	4	47	.07
No. A-291	3	4	49	.07
No. A-292	3	4	52	.07
No. A-293	3	4	56	.07
No. A-294	3	4	58	.07
No. A-295	3	4	63	.07
No. A-296	3	4	74	.07
No. A-297	3	4	78	.07
No. A-298	3	4	81	.07
No. A-299	3	4	87	.07
No. A-300	3	4	93	.07
No. A-301	3	4	98	.07
No. A-302	3	4	104	.07
No. A-303	3	4	109	.07
No. A-304	3	4	111	.07
No. A-305	3	4	115	.07
No. A-306	3	4	125	.07
No. A-307	3	4	125	.07
No. A-308	3½	4	16	.08¼
No. A-309	3½	4	19	.08¼
No. A-310	3½	4	20	.08¼
No. A-311	3½	4	23	.08¼
No. A-312	3½	4	27	.08¼
No. A-313	3½	4	31	.08¼
No. A-314	3½	4	33	.08¼
No. A-315	3½	4	35	.08¼
No. A-316	3½	4	39	.08¼
No. A-317	3½	4	42	.08¼
No. A-318	3½	4	47	.08¼
No. A-319	3½	4	53	.08¼
No. A-320	3½	4	54	.08¼
No. A-321	3½	4	56	.08¼
No. A-322	3½	4	59	.08¼
No. A-323	3½	4	60	.08¼
No. A-324	3½	4	65	.08¼
No. A-325	3½	4	68	.08¼
No. A-326	3½	4	74	.08¼
No. A-327	3½	4	79	.08¼
No. A-328	3½	4	82	$0.08½
No. A-329	3½	4	86	.08½
No. A-330	3½	4	89	.08½
No. A-331	3½	4	90	.08½
No. A-332	3½	4	95	.08½
No. A-333	4	4	16	.09
No. A-334	4	4	17	.09
No. A-335	4	4	19	.09
No. A-336	4	4	25	.09
No. A-337	4	4	29	.09
No. A-338	4	4	30	.09
No. A-339	4	4	37	.09
No. A-340	4	4	39	.09
No. A-341	4	4	46	.09
No. A-342	4	4	48	.09
No. A-343	4½	4	54	.10½
No. A-344	4½	4	59	.10½
No. A-345	4½	4	60	.10½
No. A-346	4½	4	66	.11½
No. A-347	4½	4	69	.10½
No. A-348	4½	4	73	.10½
No. A-349	4½	4	75	.10½
No. A-350	4½	4	78	.10½
No. A-351	4½	4	81	.10½
No. A-352	4½	4	84	.10½
No. A-353	4½	4	84	.10½
No. A-354	5	4	17	.11¼
No. A-355	5	4	18	.11¼
No. A-356	5	4	22	.11¼
No. A-357	5	4	27	.11¼
No. A-358	5	4	33	.11¼
No. A-359	5	4	35	.11¼
No. A-360	5	4	36	.11¼
No. A-361	5	4	39	.11¼
No. A-362	5	4	43	.11¼
No. A-363	5	4	44	.11¼
No. A-364	5	4	49	.11¼
No. A-365	5	4	56	.11¼
No. A-366	5	4	58	.11¼
No. A-367	5	4	60	.11¼
No. A-368	5	4	64	.11¼
No. A-369	5	4	68	.11¼
No. A-370	5	4	73	.11¼
No. A-371	5	4	76	.11¼
No. A-372	5	4	81	.11¼
No. A-373	5	4	88	.11¼
No. A-374	5	4	90	.11¼
No. A-375	5	4	97	.11¼
No. A-376	5	4	100	.11¼
No. A-377	6	4	15	.14
No. A-378	6	4	17	.14
No. A-379	6	4	26	.14
No. A-380	6	4	29	.14
No. A-381	6	4	30	.14
No. A-382	6	4	34	.14
No. A-383	6	4	37	.14
No. A-384	6	4	42	.14
No. A-385	6	4	48	.14
No. A-386	6	4	51	.14
No. A-387	6	4	55	.14
No. A-388	6	4	59	.14
No. A-389	6	4	63	.14
No. A-390	6	4	67	.14
No. A-391	6	4	70	.14
No. A-392	6	4	75	.14
No. A-393	6	4	79	.14
No. A-394	6	4	83	.14
No. A-395	6	4	91	.14
No. A-396	6	4	99	.14
No. A-397	6	4	110	.14
No. A-398	6	4	110	.14
No. A-399	7	4	17	.16¼
No. A-400	7	4	18	.16¼
No. A-401	7	4	20	.16¼
No. A-402	7	4	23	.16¼
No. A-403	7	4	29	.16¼
No. A-404	7	4	33	.16¼
No. A-405	7	4	36	.16¼
No. A-406	7	4	41	.16¼
No. A-407	7	4	47	.16¼
No. A-408	7	4	49	.16¼
No. A-409	7	4	50	.16¼
No. A-410	7	4	52	.16¼
No. A-411	7	4	58	.16¼
No. A-412	7	4	61	.16¼
No. A-413	7	4	67	.16¼
No. A-414	7	4	70	.16¼
No. A-415	7	4	74	.16¼
No. A-416	7	4	76	.16¼
No. A-417	7	4	82	.16¼
No. A-418	7	4	85	.16¼
No. A-419	7	4	89	.16¼
No. A-420	7	4	93	.16¼
No. A-421	7	4	95	.16¼
No. A-422	8	4	17	.19
No. A-423	8	4	18	.19
No. A-424	8	4	23	.19
No. A-425	8	4	25	.19
No. A-426	8	4	27	.19
No. A-427	8	4	32	.19
No. A-428	8	4	36	.19
No. A-429	8	4	41	.19
No. A-430	8	4	45	.19
No. A-431	8	4	49	$0.19
No. A-432	8	4	50	.19
No. A-433	8	4	56	.19
No. A-434	8	4	61	.19
No. A-435	8	4	68	.19
No. A-436	8	4	70	.19
No. A-437	8	4	74	.19
No. A-438	8	4	76	.19
No. A-439	8	4	79	.19
No. A-440	8	4	84	.19
No. A-441	4	4	88	.19
No. A-442	8	4	90	.19
No. A-443	8	4	94	.19
No. A-444	8	4	95	.19
No. A-445	9	4	16	.22
No. A-446	9	4	18	.22
No. A-447	9	4	20	.22
No. A-448	9	4	23	.22
No. A-449	9	4	27	.22
No. A-450	9	4	30	.22
No. A-451	9	4	31	.22
No. A-452	9	4	36	.22
No. A-453	9	4	39	.22
No. A-454	9	4	42	.22
No. A-455	9	4	47	.22
No. A-456	9	4	51	.22
No. A-457	9	4	56	.22
No. A-458	9	4	60	.22
No. A-459	9	4	63	.22
No. A-460	9	4	66	.22
No. A-461	9	4	69	.22
No. A-462	9	4	72	.22
No. A-463	9	4	74	.22
No. A-464	9	4	76	.22
No. A-465	10	4	17	.24
No. A-466	10	4	18	.24
No. A-467	10	4	23	.24
No. A-468	10	4	25	.24
No. A-469	10	4	29	.24
No. A-470	10	4	32	.24
No. A-471	10	4	36	.24
No. A-472	10	4	37	.24
No. A-473	10	4	41	.24
No. A-474	10	4	46	.24
No. A-475	10	4	49	.24
No. A-476	10	4	50	.24
No. A-477	10	4	54	.24
No. A-478	10	4	57	.24
No. A-479	10	4	60	.24
No. A-480	10	4	63	.24
No. A-481	10	4	65	.24
No. A-482	10	4	72	.24
No. A-483	10	4	79	.24
No. A-484	10	4	81	.24
No. A-485	10	4	86	.24
No. A-486	10	4	90	.24
No. A-487	10	4	92	.24
No. A-488	11	4	20	.26
No. A-489	11	4	21	.26
No. A-490	11	4	25	.26
No. A-491	11	4	29	.26
No. A-492	11	4	32	.26
No. A-493	11	4	37	.26
No. A-494	11	4	41	.26
No. A-495	11	4	44	.26
No. A-496	11	4	48	.26
No. A-497	11	4	50	.26
No. A-498	11	4	54	.26
No. A-499	11	4	55	.26
No. A-500	11	4	60	.26
No. A-501	11	4	66	.26
No. A-502	11	4	69	.26
No. A-503	11	4	72	.26
No. A-504	11	4	75	.26
No. A-505	11	4	78	.26
No. A-506	11	4	81	.26
No. A-507	11	4	86	.26
No. A-508	11	4	89	.26
No. A-509	11	4	90	.26
No. A-510	11	4	95	.26
No. A-511	11	4	98	.26
No. A-512	11	4	103	.26
No. A-513	11	4	109	.26
No. A-514	11	4	114	.26
No. A-515	11	4	115	.26
No. A-516	11	4	123	.26
No. A-517	11	4	125	.26
No. A-518	12	4	20	.30
No. A-519	12	4	26	.30
No. A-520	12	4	35	.30
No. A-521	12	4	43	.30
No. A-522	12	4	49	.30
No. A-523	12	4	55	.30
No. A-524	12	4	61	.30
No. A-525	12	4	69	.30
No. A-526	12	4	74	.30
No. A-527	12	4	81	.30
No. A-528	12	4	93	.30
No. A-529	12	4	104	.30
No. A-530	12	4	110	.30
No. A-531	12	4	116	.30
No. A-532	12	4	121	.30
No. A-533	12	4	127	.30
No. A-534	12	4	136	$0.30
No. A-535	12	4	141	.30
No. A-536	12	4	149	.30
No. A-537	12	4	152	.30
No. A-538	12	4	162	.30
No. A-539	12	4	165	.30
No. A-540	12	4	165	.30
No. A-541	13	4	17	.32
No. A-542	13	4	19	.32
No. A-543	13	4	25	.32
No. A-544	13	4	29	.32
No. A-545	13	4	33	.32
No. A-546	13	4	38	.32
No. A-547	13	4	42	.32
No. A-548	13	4	47	.32
No. A-549	13	4	54	.32
No. A-550	13	4	61	.32
No. A-551	13	4	63	.32
No. A-552	13	4	72	.32
No. A-553	13	4	78	.32
No. A-554	13	4	81	.32
No. A-555	13	4	87	.32
No. A-556	13	4	90	.32
No. A-557	13	4	104	.32
No. A-558	13	4	115	.32
No. A-559	13	4	126	.32
No. A-560	13	4	132	.32
No. A-561	13	4	143	.32
No. A-562	13	4	150	.32
No. A-563	13	4	156	.32
No. A-564	13	4	159	.32
No. A-565	13	4	163	.32
No. A-566	13	4	165	.32
No. A-567	14	4	19	.35
No. A-568	14	4	21	.35
No. A-569	14	4	26	.35
No. A-570	14	4	29	.35
No. A-571	14	4	30	.35
No. A-572	14	4	38	.35
No. A-573	14	4	41	.35
No. A-574	14	4	44	.35
No. A-575	14	4	49	.35
No. A-576	14	4	51	.35
No. A-577	14	4	56	.35
No. A-578	14	4	62	.35
No. A-579	14	4	69	.35
No. A-580	14	4	70	.35
No. A-581	14	4	78	.35
No. A-582	14	4	80	.35
No. A-583	14	4	86	.35
No. A-584	14	4	89	.35
No. A-585	14	4	91	.35
No. A-586	14	4	95	.35
No. A-587	15	4	20	.38
No. A-588	15	4	22	.38
No. A-589	15	4	29	.38
No. A-590	15	4	31	.38
No. A-591	15	4	36	.38
No. A-592	15	4	40	.38
No. A-593	15	4	44	.38
No. A-594	15	4	49	.38
No. A-595	15	4	54	.38
No. A-596	15	4	58	.38
No. A-597	15	4	60	.38
No. A-598	15	4	63	.38
No. A-599	16	4	72	.41
No. A-600	16	4	79	.41
No. A-601	16	4	83	.41
No. A-602	16	4	88	.41
No. A-603	16	4	94	.41
No. A-604	16	4	100	.41
No. A-605	16	4	111	.41
No. A-606	16	4	116	.41
No. A-607	16	4	123	.41
No. A-608	16	4	129	.41
No. A-609	16	4	134	.41
No. A-610	16	4	140	.41
No. A-611	16	4	143	.41
No. A-612	16	4	145	.41
No. A-613	5	5	15	.14½
No. A-614	5	5	20	.14½
No. A-615	5	5	23	.14½
No. A-616	5	5	27	.14½
No. A-617	5	5	31	.14½
No. A-618	5	5	36	.14½
No. A-619	5	5	40	.14½
No. A-620	5	5	46	.14½
No. A-621	5	5	49	.14½
No. A-622	5	5	55	.14½
No. A-623	5	5	61	.14½
No. A-624	5	5	68	.14½
No. A-625	5	5	74	.14½
No. A-626	5	5	75	.14½
No. A-627	5	5	83	.14½
No. A-628	5	5	88	.14½
No. A-629	5	5	92	.14½
No. A-630	5	5	101	.14½
No. A-631	5	5	116	.14½
No. A-632	5	5	123	.14½
No. A-633	5	5	129	.14½
No. A-634	5	5	134	.14½
No. A-635	5	5	135	.14½
No. A-636	5	5	139	.14½

RUBBER BELT BARGAIN LIST—Continued.

	Width Inches	Ply	Length Feet	Price Per Ft.
No. A-637	5	5	140	$0.14½
No. A-638	6	5	20	.17
No. A-639	6	5	26	.17
No. A-640	6	5	29	.17
No. A-641	6	5	31	.17
No. A-642	6	5	36	.17
No. A-643	6	5	39	.17
No. A-644	6	5	40	.17
No. A-645	6	5	45	.17
No. A-646	6	5	48	.17
No. A-647	6	5	52	.17
No. A-648	6	5	55	.17
No. A-649	6	5	63	.17
No. A-650	6	5	71	.17
No. A-651	6	5	75	.17
No. A-652	6	5	78	.17
No. A-653	6	5	82	.17
No. A-654	6	5	89	.17
No. A-655	6	5	94	.17
No. A-656	6	5	101	.17
No. A-657	6	5	106	.17
No. A-658	6	5	115	.17
No. A-659	6	5	119	.17
No. A-660	6	5	128	.17
No. A-661	6	5	132	.17
No. A-662	6	5	135	.17
No. A-663	8	5	21	.24
No. A-664	8	5	27	.24
No. A-665	8	5	31	.24
No. A-666	8	5	35	.24
No. A-667	8	5	40	.24
No. A-668	8	5	41	.24
No. A-669	8	5	49	.24
No. A-670	8	5	53	.24
No. A-671	8	5	58	.24
No. A-672	8	5	63	.24
No. A-673	8	5	70	.24
No. A-674	8	5	76	.24
No. A-675	8	5	79	.24
No. A-676	8	5	81	.24
No. A-677	8	5	85	.24
No. A-678	8	5	91	.24
No. A-679	8	5	99	.24
No. A-680	8	5	103	.24
No. A-681	8	5	116	.24
No. A-682	8	5	125	.24
No. A-683	8	5	132	.24
No. A-684	8	5	135	.24
No. A-685	10	5	24	.31
No. A-686	10	5	29	.31
No. A-687	10	5	33	.31
No. A-688	10	5	40	.31
No. A-689	10	5	44	.31
No. A-690	10	5	46	.31
No. A-691	10	5	51	.31
No. A-692	10	5	58	.31
No. A-693	10	5	60	.31
No. A-694	10	5	63	.31
No. A-695	10	5	72	.31
No. A-696	10	5	75	.31
No. A-697	10	5	79	.31
No. A-698	10	5	81	.31
No. A-699	10	5	86	.31
No. A-700	10	5	90	.31
No. A-701	10	5	94	.31
No. A-702	10	5	97	.31
No. A-703	10	5	110	.31
No. A-704	10	5	116	.31
No. A-705	10	5	124	.31
No. A-706	10	5	129	.31
No. A-707	10	5	133	.31
No. A-708	10	5	141	.31
No. A-709	10	5	142	.31
No. A-710	10	5	149	.31
No. A-711	10	5	150	.31
No. A-712	12	5	24	.36
No. A-713	12	5	26	.36
No. A-714	12	5	29	.36
No. A-715	12	5	30	$0.36
No. A-716	12	5	35	.36
No. A-717	12	5	39	.36
No. A-718	12	5	41	.36
No. A-719	12	5	45	.36
No. A-720	12	5	48	.36
No. A-721	12	5	54	.36
No. A-722	12	5	63	.36
No. A-723	12	5	69	.36
No. A-724	12	5	72	.36
No. A-725	12	5	75	.36
No. A-726	12	5	80	.36
No. A-727	12	5	83	.36
No. A-728	12	5	89	.36
No. A-729	12	5	94	.36
No. A-730	12	5	102	.36
No. A-731	12	5	108	.36
No. A-732	12	5	117	.36
No. A-733	12	5	123	.36
No. A-734	12	5	129	.36
No. A-735	12	5	136	.36
No. A-736	14	5	26	.44
No. A-737	14	5	28	.44
No. A-738	14	5	33	.44
No. A-739	14	5	39	.44
No. A-740	14	5	42	.44
No. A-741	14	5	46	.44
No. A-742	14	5	49	.44
No. A-743	14	5	54	.44
No. A-744	14	5	62	.44
No. A-745	14	5	68	.44
No. A-746	14	5	73	.44
No. A-747	14	5	75	.44
No. A-748	14	5	79	.44
No. A-749	14	5	84	.44
No. A-750	14	5	90	.44
No. A-751	14	5	95	.44
No. A-752	14	5	99	.44
No. A-753	14	5	104	.44
No. A-754	14	5	116	.44
No. A-755	14	5	125	.44
No. A-756	14	5	131	.44
No. A-757	14	5	142	.44
No. A-758	14	5	145	.44
No. A-759	14	5	153	.44
No. A-760	16	5	30	.50
No. A-761	16	5	35	.50
No. A-762	16	5	42	.50
No. A-763	16	5	46	.50
No. A-764	16	5	53	.50
No. A-765	16	5	55	.50
No. A-766	16	5	59	.50
No. A-767	16	5	62	.50
No. A-768	16	5	68	.50
No. A-769	16	5	71	.50
No. A-770	16	5	79	.50
No. A-771	16	5	85	.50
No. A-772	16	5	93	.50
No. A-773	16	5	99	.50
No. A-774	16	5	116	.50
No. A-775	16	5	124	.50
No. A-776	16	5	132	.50
No. A-777	16	5	143	.50
No. A-778	16	5	145	.50
No. A-779	16	5	149	.50
No. A-780	16	5	151	.50
No. A-781	16	5	158	.50
No. A-782	16	5	162	.50
No. A-783	16	5	165	.50
No. A-784	6	6	15	.21
No. A-785	6	6	19	.21
No. A-786	6	6	20	.21
No. A-787	6	6	23	.21
No. A-788	6	6	26	.21
No. A-789	6	6	29	.21
No. A-790	6	6	32	.21
No. A-791	6	6	35	.21
No. A-792	6	6	38	.21
No. A-793	6	6	42	$0.21
No. A-794	6	6	43	.21
No. A-795	6	6	47	.21
No. A-796	6	6	51	.21
No. A-797	6	6	56	.21
No. A-798	6	6	62	.21
No. A-799	6	6	70	.21
No. A-800	6	6	73	.21
No. A-801	6	6	75	.21
No. A-802	6	6	81	.21
No. A-803	6	6	78	.21
No. A-804	6	6	89	.21
No. A-805	6	6	83	.21
No. A-806	6	6	95	.21
No. A-807	7	6	22	.21
No. A-808	7	6	24	.25
No. A-809	7	6	27	.25
No. A-810	7	6	32	.25
No. A-811	7	6	33	.25
No. A-812	7	6	38	.25
No. A-813	7	6	40	.25
No. A-814	7	6	44	.25
No. A-815	7	6	51	.25
No. A-816	7	6	59	.25
No. A-817	7	6	62	.25
No. A-818	7	6	68	.25
No. A-819	7	6	71	.25
No. A-820	7	6	76	.25
No. A-821	7	6	79	.25
No. A-822	7	6	84	.25
No. A-823	7	6	91	.25
No. A-824	7	6	96	.25
No. A-825	7	6	101	.25
No. A-826	7	6	106	.25
No. A-827	7	6	110	.25
No. A-828	8	6	23	.29
No. A-829	8	6	25	.29
No. A-830	8	6	32	.29
No. A-831	8	6	38	.29
No. A-832	8	6	40	.29
No. A-833	8	6	46	.29
No. A-834	8	6	52	.29
No. A-835	8	6	55	.29
No. A-836	8	6	59	.29
No. A-837	8	6	60	.29
No. A-838	8	6	63	.29
No. A-839	8	6	72	.29
No. A-840	8	6	78	.29
No. A-841	8	6	80	.29
No. A-842	8	6	85	.29
No. A-843	8	6	91	.29
No. A-844	8	6	96	.29
No. A-845	8	6	100	.29
No. A-846	8	6	111	.29
No. A-847	8	6	123	.29
No. A-848	8	6	136	.29
No. A-849	8	6	140	.29
No. A-850	8	6	142	.29
No. A-851	8	6	153	.29
No. A-852	8	6	160	.29
No. A-853	10	6	25	.36
No. A-854	10	6	26	.36
No. A-855	10	6	33	.36
No. A-856	10	6	34	.36
No. A-857	10	6	39	.36
No. A-858	10	6	45	.36
No. A-859	10	6	48	.36
No. A-860	10	6	51	.36
No. A-861	10	6	67	.36
No. A-862	10	6	69	.36
No. A-863	10	6	72	.36
No. A-864	10	6	78	.36
No. A-865	10	6	81	.36
No. A-866	10	6	86	.36
No. A-867	10	6	92	.36
No. A-868	10	6	94	.36
No. A-869	10	6	99	.36
No. A-870	10	6	101	.36
No. A-871	10	6	103	$0.36
No. A-872	10	6	108	.36
No. A-873	10	6	110	.36
No. A-874	12	6	31	.45
No. A-875	12	6	32	.45
No. A-876	12	6	35	.45
No. A-877	12	6	41	.45
No. A-878	12	6	45	.45
No. A-879	12	6	48	.45
No. A-880	12	6	50	.45
No. A-881	12	6	52	.45
No. A-882	12	6	58	.45
No. A-883	12	6	61	.45
No. A-884	12	6	67	.45
No. A-885	12	6	68	.45
No. A-886	12	6	73	.45
No. A-887	12	6	79	.45
No. A-888	12	6	80	.45
No. A-889	12	6	84	.45
No. A-890	12	6	85	.45
No. A-891	12	6	91	.45
No. A-892	12	6	96	.45
No. A-893	12	6	100	.45
No. A-894	12	6	110	.45
No. A-895	12	6	113	.45
No. A-896	12	6	121	.45
No. A-897	12	6	128	.45
No. A-898	12	6	132	.45
No. A-899	12	6	140	.45
No. A-900	14	6	25	.53
No. A-901	14	6	29	.53
No. A-902	14	6	32	.53
No. A-903	14	6	33	.53
No. A-904	14	6	37	.53
No. A-905	14	6	40	.53
No. A-906	14	6	44	.53
No. A-907	14	6	49	.53
No. A-908	14	6	56	.53
No. A-909	14	6	58	.53
No. A-910	14	6	61	.53
No. A-911	14	6	65	.53
No. A-912	14	6	67	.53
No. A-913	14	6	72	.53
No. A-914	14	6	77	.53
No. A-915	14	6	79	.53
No. A-916	14	6	80	.53
No. A-917	14	6	83	.53
No. A-918	14	6	88	.53
No. A-919	14	6	91	.53
No. A-920	14	6	94	.53
No. A-921	14	6	95	.53
No. A-922	16	6	30	.58
No. A-923	16	6	32	.58
No. A-924	16	6	39	.58
No. A-925	16	6	41	.58
No. A-926	16	6	45	.58
No. A-927	16	6	50	.58
No. A-928	16	6	56	.58
No. A-929	16	6	61	.58
No. A-930	16	6	63	.58
No. A-931	16	6	68	.58
No. A-932	16	6	72	.58
No. A-933	16	6	75	.58
No. A-934	16	6	76	.58
No. A-935	16	6	80	.58
No. A-936	16	6	82	.58
No. A-937	16	6	84	.58
No. A-938	16	6	91	.58
No. A-939	16	6	96	.58
No. A-940	16	6	99	.58
No. A-941	16	6	108	.58
No. A-942	16	6	114	.58
No. A-943	16	6	123	.58
No. A-944	16	6	130	.58
No. A-945	16	6	134	.58
No. A-946	16	6	139	.58
No. A-947	16	6	144	.58
No. A-948	16	6	150	.58

RED STITCHED CANVAS BELTING.

REMNANT LIST.

	Width Inches	Ply	Length Feet	Price Per Ft.
No. A-949	1½	4	15	$0.03½
No. A-950	1½	4	17	.03½
No. A-951	1½	4	19	.03½
No. A-952	1½	4	23	.03½
No. A-953	1½	4	27	.03½
No. A-954	1½	4	29	.03½
No. A-955	1½	4	33	.03½
No. A-956	1½	4	38	.03½
No. A-957	1½	4	42	.03½
No. A-958	1½	4	47	.03½
No. A-959	1½	4	51	.03½
No. A-960	1½	4	55	.03½
No. A-961	1½	4	58	.03½
No. A-962	1½	4	62	.03½
No. A-963	1½	4	65	$0.03½
No. A-964	1½	4	70	.03½
No. A-965	1½	4	76	.03½
No. A-966	1½	4	79	.03½
No. A-967	2	4	16	.05
No. A-968	2	4	17	.05
No. A-969	2	4	20	.05
No. A-970	2	4	26	.05
No. A-971	2	4	31	.05
No. A-972	2	4	38	.05
No. A-973	2	4	39	.05
No. A-974	2	4	43	.05
No. A-975	2	4	46	.05
No. A-976	2	4	52	.05
No. A-977	2	4	56	$0.05
No. A-978	2	4	59	.05
No. A-979	2	4	64	.05
No. A-980	2	4	70	.05
No. A-981	2	4	75	.05
No. A-982	2	4	79	.05
No. A-983	2	4	83	.05
No. A-984	2	4	88	.05
No. A-985	2	4	92	.05
No. A-986	2	4	99	.05
No. A-987	2	4	105	.05
No. A-988	2	4	109	.05
No. A-989	2	4	114	.05
No. A-990	2	4	123	.05
No. A-991	2	4	125	$0.05
No. A-992	2½	4	18	.06½
No. A-993	2½	4	20	.06½
No. A-994	2½	4	23	.06½
No. A-995	2½	4	29	.06½
No. A-996	2½	4	35	.06½
No. A-997	2½	4	38	.06½
No. A-998	2½	4	41	.06½
No. A-999	2½	4	47	.06½
No. A-1000	2½	4	50	.06½
No. A-1001	2½	4	55	.06½
No. A-1002	2½	4	64	.06½
No. A-1003	2½	4	72	.06½
No. A-1004	2½	4	75	.06½

RED STITCHED CANVAS BELTING. REMNANT LIST—Continued

	Width Inches	Ply	Length Feet	Price Per Ft.
No. A-1005.	2½	4	79..	$0.06½
No. A-1006.	2½	4	82..	.06½
No. A-1007.	2½	4	86..	.06½
No. A-1008.	2½	4	88..	.06½
No. A-1009.	2½	4	93..	.06½
No. A-1010.	2½	4	99..	.06½
No. A-1011.	2½	4	107..	.06½
No. A-1012.	2½	4	109..	.06½
No. A-1013.	2½	4	116..	.06½
No. A-1014.	2½	4	122..	.06½
No. A-1015.	2½	4	125..	.06½
No. A-1016.	3	4	17..	.07½
No. A-1017.	3	4	20..	.07½
No. A-1018.	3	4	24..	.07½
No. A-1019.	3	4	29..	.07½
No. A-1020.	3	4	33..	.07½
No. A-1021.	3	4	38..	.07½
No. A-1022.	3	4	41..	.07½
No. A-1023.	3	4	47..	.07½
No. A-1024.	3	4	57..	.07½
No. A-1025.	3	4	63..	.07½
No. A-1026.	3	4	72..	.07½
No. A-1027.	3	4	75..	.07½
No. A-1028.	3	4	79..	.07½
No. A-1029.	3	4	81..	.07½
No. A-1030.	3	4	86..	.07½
No. A-1031.	3	4	90..	.07½
No. A-1032.	3	4	93..	.07½
No. A-1033.	3	4	95..	.07½
No. A-1034.	3½	4	17..	.09
No. A-1035.	3½	4	18..	.09
No. A-1036.	3½	4	22..	.09
No. A-1037.	3½	4	26..	.09
No. A-1038.	3½	4	29..	.09
No. A-1039.	3½	4	33..	.09
No. A-1040.	3½	4	38..	.09
No. A-1041.	3½	4	40..	.09
No. A-1042.	3½	4	44..	.09
No. A-1043.	3½	4	48..	.09
No. A-1044.	3½	4	52..	.09
No. A-1045.	3½	4	57..	.09
No. A-1046.	3½	4	61..	.09
No. A-1047.	3½	4	68..	.09
No. A-1048.	3½	4	73..	.09
No. A-1049.	3½	4	81..	.09
No. A-1050.	3½	4	89..	.09
No. A-1051.	3½	4	92..	.09
No. A-1052.	3½	4	96..	.09
No. A-1053.	3½	4	102..	.09
No. A-1054.	3½	4	109..	.09
No. A-1055.	3½	4	110..	.09
No. A-1056.	4	4	19..	.10
No. A-1057.	4	4	20..	.10
No. A-1058.	4	4	24..	.10
No. A-1059.	4	4	29..	.10
No. A-1060.	4	4	33..	.10
No. A-1061.	4	4	38..	.10
No. A-1062.	4	4	41..	.10
No. A-1063.	4	4	49..	.10
No. A-1064.	4	4	50..	.10
No. A-1065.	4	4	56..	.10
No. A-1066.	4	4	58..	.10
No. A-1067.	4	4	62..	.10
No. A-1068.	4	4	67..	.10
No. A-1069.	4	4	80..	.10
No. A-1070.	4	4	83..	.10
No. A-1071.	4	4	89..	.10
No. A-1072.	4	4	92..	.10
No. A-1073.	4	4	96..	.10
No. A-1074.	4	4	100..	.10
No. A-1075.	4	4	112..	.10
No. A-1076.	5	4	16..	.12½
No. A-1077.	5	4	18..	.12½
No. A-1078.	5	4	19..	.12½
No. A-1079.	5	4	23..	.12½
No. A-1080.	5	4	27..	.12½
No. A-1081.	5	4	32..	.12½
No. A-1082.	5	4	39..	.12½
No. A-1083.	5	4	43..	.12½
No. A-1084.	5	4	45..	.12½
No. A-1085.	5	4	48..	.12½
No. A-1086.	5	4	50..	.12½
No. A-1087.	5	4	54..	.12½
No. A-1088.	5	4	59..	.12½
No. A-1089.	5	4	64..	.12½
No. A-1090.	5	4	71..	.12½
No. A-1091.	5	4	78..	.12½
No. A-1092.	5	4	82..	.12½
No. A-1093.	5	4	86..	.12½
No. A-1094.	5	4	97..	.12½
No. A-1095.	5	4	103..	.12½
No. A-1096.	5	4	109..	.12½
No. A-1097.	5	4	118..	.12½
No. A-1098.	5	4	126..	.12½
No. A-1099.	5	4	136..	.12½
No. A-2000.	5	4	140..	.12½
No. A-2001.	6	4	16..	.15
No. A-2002.	6	4	18..	.15
No. A-2003.	6	4	23..	.15
No. A-2004.	6	4	32..	.15
No. A-2005.	6	4	35..	.15
No. A-2006.	6	4	39..	.15
No. A-2007.	6	4	46..	.15
No. A-2008.	6	4	54..	.15
No. A-2009.	6	4	60..	$0.15
No. A-2010.	6	4	61..	.15
No. A-2011.	6	4	63..	.15
No. A-2012.	6	4	69..	.15
No. A-2013.	6	4	74..	.15
No. A-2014.	6	4	79..	.15
No. A-2015.	6	4	82..	.15
No. A-2016.	6	4	88..	.15
No. A-2017.	6	4	93..	.15
No. A-2018.	6	4	96..	.15
No. A-2019.	6	4	101..	.15
No. A-2020.	6	4	107..	.15
No. A-2021.	6	4	109..	.15
No. A-2022.	6	4	115..	.15
No. A-2023.	6	4	122..	.15
No. A-2024.	6	4	127..	.15
No. A-2025.	6	4	132..	.15
No. A-2026.	6	4	135..	.15
No. A-2027.	7	4	20..	.17½
No. A-2028.	7	4	22..	.17½
No. A-2029.	7	4	26..	.17½
No. A-2030.	7	4	29..	.17½
No. A-2031.	7	4	33..	.17½
No. A-2032.	7	4	35..	.17½
No. A-2033.	7	4	38..	.17½
No. A-2034.	7	4	40..	.17½
No. A-2035.	7	4	44..	.17½
No. A-2036.	7	4	49..	.17½
No. A-2037.	7	4	55..	.17½
No. A-2038.	7	4	61..	.17½
No. A-2039.	7	4	66..	.17½
No. A-2040.	7	4	72..	.17½
No. A-2041.	7	4	79..	.17½
No. A-2042.	7	4	81..	.17½
No. A-2043.	7	4	86..	.17½
No. A-2044.	7	4	91..	.17½
No. A-2045.	7	4	95..	.17½
No. A-2046.	8	4	18..	.20
No. A-2047.	8	4	20..	.20
No. A-2048.	8	4	23..	.20
No. A-2049.	8	4	26..	.20
No. A-2050.	8	4	32..	.20
No. A-2051.	8	4	43..	.20
No. A-2052.	8	4	45..	.20
No. A-2053.	8	4	51..	.20
No. A-2054.	8	4	62..	.20
No. A-2055.	8	4	68..	.20
No. A-2056.	8	4	69..	.20
No. A-2057.	8	4	72..	.20
No. A-2058.	8	4	78..	.20
No. A-2059.	8	4	83..	.20
No. A-2060.	8	4	85..	.20
No. A-2061.	8	4	89..	.20
No. A-2062.	8	4	92..	.20
No. A-2063.	8	4	100..	.20
No. A-2064.	8	4	116..	.20
No. A-2065.	8	4	126..	.20
No. A-2066.	8	4	128..	.20
No. A-2067.	8	4	133..	.20
No. A-2068.	8	4	136..	.20
No. A-2069.	8	4	142..	.20
No. A-2070.	8	4	148..	.20
No. A-2071.	8	4	150..	.20
No. A-2072.	9	4	30..	.22½
No. A-2073.	9	4	33..	.22½
No. A-2074.	9	4	38..	.22½
No. A-2075.	9	4	41..	.22½
No. A-2076.	9	4	47..	.22½
No. A-2077.	9	4	54..	.22½
No. A-2078.	9	4	63..	.22½
No. A-2079.	9	4	69..	.22½
No. A-2080.	9	4	70..	.22½
No. A-2081.	9	4	75..	.22½
No. A-2082.	9	4	76..	.22½
No. A-2083.	9	4	82..	.22½
No. A-2084.	9	4	86..	.22½
No. A-2085.	9	4	89..	.22½
No. A-2086.	9	4	91..	.22½
No. A-2087.	9	4	96..	.22½
No. A-2088.	9	4	101..	.22½
No. A-2089.	9	4	108..	.22½
No. A-2090.	9	4	110..	.22½
No. A-2091.	10	4	23..	.25
No. A-2092.	10	4	26..	.25
No. A-2093.	10	4	29..	.25
No. A-2094.	10	4	33..	.25
No. A-2095.	10	4	38..	.25
No. A-2096.	10	4	42..	.25
No. A-2097.	10	4	47..	.25
No. A-2098.	10	4	49..	.25
No. A-2099.	10	4	51..	.25
No. A-2100.	10	4	55..	.25
No. A-2101.	10	4	59..	.25
No. A-2102.	10	4	63..	.25
No. A-2103.	10	4	72..	.25
No. A-2104.	10	4	78..	.25
No. A-2105.	10	4	81..	.25
No. A-2106.	10	4	87..	.25
No. A-2107.	10	4	90..	.25
No. A-2108.	10	4	96..	.25
No. A-2109.	10	4	101..	.25
No. A-2110.	10	4	111..	.25
No. A-2111.	10	4	116..	.25
No. A-2112.	10	4	124..	.25
No. A-2113.	10	4	129..	$0.25
No. A-2114.	10	4	138..	.25
No. A-2115.	10	4	142..	.25
No. A-2116.	10	4	150..	.25
No. A-2117.	12	4	33..	.30
No. A-2118.	12	4	35..	.30
No. A-2119.	12	4	37..	.30
No. A-2120.	12	4	43..	.30
No. A-2121.	12	4	45..	.30
No. A-2122.	12	4	51..	.30
No. A-2123.	12	4	56..	.30
No. A-2124.	12	4	60..	.30
No. A-2125.	12	4	63..	.30
No. A-2126.	12	4	72..	.30
No. A-2127.	12	4	76..	.30
No. A-2128.	12	4	80..	.30
No. A-2129.	12	4	82..	.30
No. A-2130.	12	4	86..	.30
No. A-2131.	12	4	93..	.30
No. A-2132.	12	4	101..	.30
No. A-2133.	12	4	112..	.30
No. A-2134.	12	4	115..	.30
No. A-2135.	12	4	119..	.30
No. A-2136.	12	4	126..	.30
No. A-2137.	12	4	134..	.30
No. A-2138.	12	4	137..	.30
No. A-2139.	4	6	18..	.14½
No. A-2140.	4	6	20..	.14½
No. A-2141.	4	6	23..	.14½
No. A-2142.	4	6	29..	.14½
No. A-2143.	4	6	32..	.14½
No. A-2144.	4	6	36..	.14½
No. A-2145.	4	6	41..	.14½
No. A-2146.	4	6	48..	.14½
No. A-2147.	4	6	52..	.14½
No. A-2148.	4	6	55..	.14½
No. A-2149.	4	6	59..	.14½
No. A-2150.	4	6	64..	.14½
No. A-2151.	4	6	68..	.14½
No. A-2152.	4	6	75..	.14½
No. A-2153.	4	6	79..	.14½
No. A-2154.	4	6	81..	.14½
No. A-2155.	4	6	86..	.14½
No. A-2156.	4	6	90..	.14½
No. A-2157.	5	6	20..	.18
No. A-2158.	5	6	22..	.18
No. A-2159.	5	6	26..	.18
No. A-2160.	5	6	33..	.18
No. A-2161.	5	6	38..	.18
No. A-2162.	5	6	44..	.18
No. A-2163.	5	6	49..	.18
No. A-2164.	5	6	51..	.18
No. A-2165.	5	6	54..	.18
No. A-2166.	5	6	59..	.18
No. A-2167.	5	6	60..	.18
No. A-2168.	5	6	61..	.18
No. A-2169.	5	6	67..	.18
No. A-2170.	5	6	76..	.18
No. A-2171.	5	6	82..	.18
No. A-2172.	5	6	87..	.18
No. A-2173.	5	6	90..	.18
No. A-2174.	5	6	94..	.18
No. A-2175.	5	6	99..	.18
No. A-2176.	5	6	104..	.18
No. A-2177.	5	6	108..	.18
No. A-2178.	5	6	110..	.18
No. A-2179.	6	6	18..	.22
No. A-2180.	6	6	20..	.22
No. A-2181.	6	6	26..	.22
No. A-2182.	6	6	29..	.22
No. A-2183.	6	6	33..	.22
No. A-2184.	6	6	38..	.22
No. A-2185.	6	6	42..	.22
No. A-2186.	6	6	46..	.22
No. A-2187.	6	6	49..	.22
No. A-2188.	6	6	50..	.22
No. A-2189.	6	6	54..	.22
No. A-2190.	6	6	62..	.22
No. A-2191.	6	6	65..	.22
No. A-2192.	6	6	71..	.22
No. A-2193.	6	6	76..	.22
No. A-2194.	6	6	84..	.22
No. A-2195.	6	6	86..	.22
No. A-2196.	6	6	89..	.22
No. A-2197.	6	6	93..	.22
No. A-2198.	6	6	98..	.22
No. A-2199.	6	6	111..	.22
No. A-2200.	6	6	116..	.22
No. A-2201.	6	6	119..	.22
No. A-2202.	6	6	128..	.22
No. A-2203.	6	6	130..	.22
No. A-2204.	6	6	135..	.22
No. A-2205.	7	6	20..	.26
No. A-2206.	7	6	23..	.26
No. A-2207.	7	6	26..	.26
No. A-2208.	7	6	29..	.26
No. A-2209.	7	6	31..	.26
No. A-2210.	7	6	36..	.26
No. A-2211.	7	6	39..	.26
No. A-2212.	7	6	42..	.26
No. A-2213.	7	6	48..	.26
No. A-2214.	7	6	56..	.26
No. A-2215.	7	6	63..	.26
No. A-2216.	7	6	69..	.26
No. A-2217.	7	6	71..	$0.26
No. A-2218.	7	6	75..	.26
No. A-2219.	7	6	81..	.26
No. A-2220.	7	6	87..	.26
No. A-2221.	7	6	91..	.26
No. A-2222.	7	6	96..	.26
No. A-2223.	7	6	100..	.26
No. A-2224.	8	6	18..	.29
No. A-2225.	8	6	23..	.29
No. A-2226.	8	6	26..	.29
No. A-2227.	8	6	32..	.29
No. A-2228.	8	6	35..	.29
No. A-2229.	8	6	37..	.29
No. A-2230.	8	6	41..	.29
No. A-2231.	8	6	48..	.29
No. A-2232.	8	6	53..	.29
No. A-2233.	8	6	59..	.29
No. A-2234.	8	6	64..	.29
No. A-2235.	8	6	72..	.29
No. A-2236.	8	6	79..	.29
No. A-2237.	8	6	86..	.29
No. A-2238.	8	6	89..	.29
No. A-2239.	8	6	92..	.29
No. A-2240.	8	6	96..	.29
No. A-2241.	8	6	100..	.29
No. A-2242.	8	6	105..	.29
No. A-2243.	8	6	109..	.29
No. A-2244.	8	6	110..	.29
No. A-2245.	9	6	24..	.33
No. A-2246.	9	6	28..	.33
No. A-2247.	9	6	32..	.33
No. A-2248.	9	6	63..	.33
No. A-2249.	9	6	39..	.33
No. A-2250.	9	6	43..	.33
No. A-2251.	9	6	45..	.33
No. A-2252.	9	6	52..	.33
No. A-2253.	9	6	56..	.33
No. A-2254.	9	6	66..	.33
No. A-2255.	9	6	68..	.33
No. A-2256.	9	6	72..	.33
No. A-2257.	9	6	75..	.33
No. A-2258.	9	6	78..	.33
No. A-2259.	9	6	83..	.33
No. A-2260.	9	6	86..	.33
No. A-2261.	9	6	90..	.33
No. A-2262.	9	6	91..	.33
No. A-2263.	9	6	96..	.33
No. A-2264.	9	6	97..	.33
No. A-2265.	10	6	25..	.36
No. A-2266.	10	6	27..	.36
No. A-2267.	10	6	31..	.36
No. A-2268.	10	6	36..	.36
No. A-2269.	10	6	42..	.36
No. A-2270.	10	6	47..	.36
No. A-2271.	10	6	49..	.36
No. A-2272.	10	6	51..	.36
No. A-2273.	10	6	55..	.36
No. A-2274.	10	6	58..	.36
No. A-2275.	10	6	60..	.36
No. A-2276.	10	6	64..	.36
No. A-2277.	10	6	68..	.36
No. A-2278.	10	6	72..	.36
No. A-2279.	10	6	73..	.36
No. A-2280.	10	6	78..	.36
No. A-2281.	10	6	85..	.36
No. A-2282.	10	6	92..	.36
No. A-2283.	10	6	97..	.36
No. A-2284.	10	6	104..	.36
No. A-2285.	10	6	116..	.36
No. A-2286.	10	6	125..	.36
No. A-2287.	10	6	131..	.36
No. A-2288.	12	6	24..	.44
No. A-2289.	12	6	28..	.44
No. A-2290.	12	6	32..	.44
No. A-2291.	12	6	36..	.44
No. A-2292.	12	6	41..	.44
No. A-2293.	12	6	47..	.44
No. A-2294.	12	6	53..	.44
No. A-2295.	12	6	64..	.44
No. A-2296.	12	6	76..	.44
No. A-2297.	12	6	79..	.44
No. A-2298.	12	6	82..	.44
No. A-2299.	12	6	85..	.44
No. A-2300.	12	6	86..	.44
No. A-2301.	12	6	91..	.44
No. A-2302.	12	6	96..	.44
No. A-2303.	12	6	97..	.44
No. A-2304.	12	6	102..	.44
No. A-2305.	12	6	111..	.44
No. A-2306.	12	6	118..	.44
No. A-2307.	12	6	127..	.44
No. A-2308.	12	6	130..	.44
No. A-2309.	14	6	27..	.54
No. A-2310.	14	6	30..	.54
No. A-2311.	14	6	32..	.54
No. A-2312.	14	6	36..	.54
No. A-2313.	14	6	41..	.54
No. A-2314.	14	6	48..	.54
No. A-2315.	14	6	54..	.54
No. A-2316.	14	6	56..	.54
No. A-2317.	14	6	64..	.54
No. A-2318.	14	6	68..	.54
No. A-2319.	14	6	69..	.54
No. A-2320.	14	6	73..	.54

SECOND-HAND LEATHER BELT REMNANT BARGAIN LIST.

These belts we secure from manufacturing plants which we are constantly dismantling. They are in good, second hand condition, thoroughly overhauled by an experienced belt maker and guaranteed to be thoroughly sound and practical for further use.

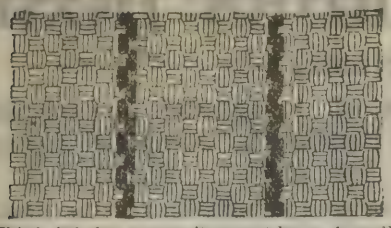
SINGLE LEATHER BELTS.

	Width Inches	Length Feet	Price of Belt
No. A-2357	1¼	6	$0.34
No. A-2358	1¼	8	.46
No. A-2359	1¼	12	.68
No. A-2360	1¼	15	.86
No. A-2361	1¼	21	1.20
No. A-2362	1¼	26	1.48
No. A-2363	1¼	33	1.88
No. A-2364	1½	12	.82
No. A-2365	1½	15	1.03
No. A-2366	1½	19	1.30
No. A-2367	1½	24	1.64
No. A-2368	1½	27	1.85
No. A-2369	1½	43	2.94
No. A-2370	2	9	.82
No. A-2371	2	13	1.19
No. A-2372	2	17	1.55
No. A-2373	2	20	1.82
No. A-2374	2	24	2.19
No. A-2375	2	29	2.65
No. A-2376	2	36	3.28
No. A-2377	2	53	4.83
No. A-2378	2½	17	1.74
No. A-2379	2½	20	2.05
No. A-2380	2½	24	2.46
No. A-2381	2½	31	3.18
No. A-2382	2½	37	3.80
No. A-2383	2½	39	4.00
No. A-2384	2½	53	5.44
No. A-2385	2½	69	7.08
No. A-2386	2½	12	1.37
No. A-2387	2½	15	1.71
No. A-2388	2½	17	1.94
No. A-2389	2½	22	2.51
No. A-2390	2½	25	2.85
No. A-2391	2½	29	3.31
No. A-2392	2½	30	3.42
No. A-2393	2½	34	3.88
No. A-2394	2½	37	4.22
No. A-2395	2½	39	4.45
No. A-2396	2½	41	4.67
No. A-2397	2½	48	5.47
No. A-2398	2½	55	6.27
No. A-2399	2½	62	7.07
No. A-2400	3	7	.96
No. A-2401	3	9	1.23
No. A-2402	3	15	2.05
No. A-2403	3	20	2.74
No. A-2404	3	23	3.15
No. A-2405	3	27	3.69
No. A-2406	3	34	4.65
No. A-2407	3	38	5.20
No. A-2408	3	45	6.16
No. A-2409	3	56	7.66
No. A-2410	3	62	8.38
No. A-2411	3	65	8.89
No. A-2412	3½	5	.80
No. A-2413	3½	9	1.44
No. A-2414	3½	11	1.76
No. A-2415	3½	14	2.24
No. A-2416	3½	17	2.72
No. A-2417	3½	21	3.36
No. A-2418	3½	26	4.16
No. A-2419	3½	33	5.28
No. A-2420	3½	39	6.24
No. A-2421	3½	51	8.16
No. A-2422	4	5	.91
No. A-2423	4	7	1.28
No. A-2424	4	9	1.64
No. A-2425	4	11	2.01
No. A-2426	4	15	2.74
No. A-2427	4	18	3.28
No. A-2428	4	21	3.83
No. A-2429	4	26	4.75
No. A-2430	4	28	5.11
No. A-2431	4	32	5.84
No. A-2432	4	39	7.12
No. A-2433	4	47	8.58
No. A-2434	4½	8	1.64
No. A-2435	4½	11	2.26
No. A-2436	4½	15	3.08
No. A-2437	4½	24	4.92
No. A-2438	4½	36	7.38
No. A-2439	4½	49	10.05
No. A-2440	5	5	1.14
No. A-2441	5	7	1.60
No. A-2442	5	8	1.82
No. A-2443	5	12	2.74
No. A-2444	5	15	3.42
No. A-2445	5	20	4.56
No. A-2446	5	25	5.70
No. A-2447	5	30	6.84
No. A-2448	5	35	7.98
No. A-2449	5	40	9.12
No. A-2450	6	7	1.92
No. A-2451	6	9	2.46
No. A-2452	6	16	4.38
No. A-2453	6	18	4.93
No. A-2454	6	21	5.75
No. A-2455	6	25	6.84
No. A-2456	6	29	7.94
No. A-2457	6	32	$8.66

DOUBLE LEATHER BELTS.

	Width Inches	Length Feet	Price of Belt
No. A-2458	1¼	5	.69
No. A-2459	1¼	6	.82
No. A-2460	1¼	9	1.23
No. A-2461	1¼	12	1.64
No. A-2462	1¼	15	2.07
No. A-2463	1¼	17	2.33
No. A-2464	1¼	26	3.56
No. A-2465	1½	33	4.52
No. A-2466	1½	35	4.79
No. A-2467	1½	7	1.12
No. A-2468	1½	9	1.44
No. A-2469	1½	12	1.92
No. A-2470	1½	14	2.24
No. A-2471	1½	19	3.04
No. A-2472	1½	22	3.52
No. A-2473	1½	25	4.00
No. A-2474	1½	26	4.16
No. A-2475	1½	37	5.92
No. A-2476	2	5	$0.91
No. A-2477	2	7	1.28
No. A-2478	2	10	1.83
No. A-2479	2	14	2.55
No. A-2480	2	16	2.92
No. A-2481	2	19	3.47
No. A-2482	2	27	4.92
No. A-2483	2	36	6.57
No. A-2484	2	41	7.48
No. A-2485	2	46	8.39
No. A-2486	2½	7	1.60
No. A-2487	2½	12	2.74
No. A-2488	2½	15	3.42
No. A-2489	2½	16	3.65
No. A-2490	2½	18	4.10
No. A-2491	2½	21	4.80
No. A-2492	2½	25	5.70
No. A-2493	2½	29	6.61
No. A-2494	2½	37	8.44
No. A-2495	2½	40	9.12
No. A-2496	2½	45	10.26
No. A-2497	2½	53	12.08
No. A-2498	3	6	1.37
No. A-2499	3	7	1.92
No. A-2500	3	9	2.46
No. A-2501	3	16	4.38
No. A-2502	3	25	6.84
No. A-2503	3	27	7.39
No. A-2504	3	32	8.66
No. A-2505	3	36	9.85
No. A-2506	3	39	10.67
No. A-2507	3	43	11.76
No. A-2508	3	57	15.60
No. A-2509	3	61	16.69
No. A-2510	3	65	17.78
No. A-2511	3	69	18.88
No. A-2512	3½	6	1.92
No. A-2513	3½	8	2.55
No. A-2514	3½	11	3.51
No. A-2515	3½	14	4.47
No. A-2516	3½	16	5.11
No. A-2517	3½	18	5.75
No. A-2518	3½	20	6.38
No. A-2519	3½	23	7.34
No. A-2520	3½	26	8.30
No. A-2521	3½	27	8.62
No. A-2522	3½	29	9.26
No. A-2523	3½	34	10.86
No. A-2524	3½	37	11.81
No. A-2525	3½	41	13.09
No. A-2526	3½	50	15.96
No. A-2527	3½	52	16.60
No. A-2528	3½	57	18.19
No. A-2529	3½	64	20.43
No. A-2530	3½	76	24.26
No. A-2531	4	6	2.19
No. A-2532	4	8	2.92
No. A-2533	4	10	3.65
No. A-2534	4	11	4.01
No. A-2535	4	13	4.75
No. A-2536	4	15	5.48
No. A-2537	4	17	6.20
No. A-2538	4	19	6.94
No. A-2539	4	22	8.03
No. A-2540	4	25	9.12
No. A-2541	4	27	9.85
No. A-2542	4	29	10.58
No. A-2543	4	36	13.14
No. A-2544	4	45	16.42
No. A-2545	4	47	17.15
No. A-2546	4½	7	2.87
No. A-2547	4½	9	3.69
No. A-2548	4½	14	5.75
No. A-2549	4½	17	$ 6.98
No. A-2550	4½	24	9.85
No. A-2551	4½	28	11.49
No. A-2552	4½	31	12.72
No. A-2553	4½	37	15.18
No. A-2554	5	9	.41
No. A-2555	5	12	5.47
No. A-2556	5	15	6.84
No. A-2557	5	17	7.75
No. A-2558	5	20	9.12
No. A-2559	5	22	10.03
No. A-2560	5	26	11.86
No. A-2561	5	28	12.77
No. A-2562	5	31	14.14
No. A-2563	5	37	16.87
No. A-2564	5	43	19.61
No. A-2565	6	6	3.28
No. A-2566	6	9	4.93
No. A-2567	6	11	6.02
No. A-2568	6	14	7.66
No. A-2569	6	16	8.76
No. A-2570	6	19	10.40
No. A-2571	6	21	11.49
No. A-2572	6	24	13.13
No. A-2573	6	26	14.23
No. A-2574	6	27	14.77
No. A-2575	6	35	19.15
No. A-2576	6	42	22.98
No. A-2577	7	7	4.47
No. A-2578	7	11	7.02
No. A-2579	7	13	8.30
No. A-2580	7	16	10.21
No. A-2581	7	20	12.77
No. A-2582	7	24	15.32
No. A-2583	7	28	17.88
No. A-2584	7	29	18.51
No. A-2585	7	32	20.43
No. A-2586	7	36	22.98
No. A-2587	7	38	24.26
No. A-2588	7	40	25.54
No. A-2589	8	9	6.39
No. A-2590	8	11	7.81
No. A-2591	8	12	8.52
No. A-2592	8	16	11.35
No. A-2593	8	18	12.78
No. A-2594	8	20	14.20
No. A-2595	8	21	14.91
No. A-2596	8	25	17.74
No. A-2597	8	27	19.17
No. A-2598	8	29	20.59
No. A-2599	8	31	22.01
No. A-2600	8	37	26.26
No. A-2601	8	41	29.11
No. A-2602	8	52	36.92
No. A-2603	9	10	8.21
No. A-2604	9	12	9.85
No. A-2605	9	15	12.31
No. A-2606	9	17	13.95
No. A-2607	9	21	17.24
No. A-2608	9	25	20.52
No. A-2609	9	26	21.34
No. A-2610	9	29	23.80
No. A-2611	9	30	24.62
No. A-2612	9	35	28.73
No. A-2613	9	37	30.37
No. A-2614	9	42	34.47
No. A-2615	9	55	45.14
No. A-2616	10	7	6.38
No. A-2617	10	9	8.21
No. A-2618	10	12	10.94
No. A-2619	10	14	12.77
No. A-2620	10	16	14.59
No. A-2621	10	17	15.50
No. A-2622	10	19	17.32
No. A-2623	10	22	20.06
No. A-2624	10	24	21.88
No. A-2625	10	26	23.71
No. A-2626	10	28	25.54
No. A-2627	10	30	27.36
No. A-2628	10	32	29.18
No. A-2629	10	36	32.82
No. A-2630	10	37	33.73
No. A-2631	10	39	35.57
No. A-2632	10	41	37.38
No. A-2633	10	43	39.20
No. A-2634	10	50	45.60
No. A-2635	10	60	54.72
No. A-2636	10	67	61.10
No. A-2637	10	81	73.87
No. A-2638	11	10	10.03
No. A-2639	11	11	11.03
No. A-2640	11	12	12.03
No. A-2641	11	14	14.05
No. A-2642	11	17	17.06
No. A-2643	11	26	26.08
No. A-2644	11	29	29.09
No. A-2645	11	33	33.11
No. A-2646	11	37	37.12
No. A-2647	11	41	41.13
No. A-2648	11	45	$45.14
No. A-2649	11	51	51.16
No. A-2650	12	9	9.85
No. A-2651	12	12	13.13
No. A-2652	12	13	14.23
No. A-2653	12	16	17.51
No. A-2654	12	17	18.60
No. A-2655	12	20	21.89
No. A-2656	12	22	24.08
No. A-2657	12	25	27.36
No. A-2658	12	26	28.45
No. A-2659	12	29	31.74
No. A-2660	12	32	35.02
No. A-2661	12	34	37.21
No. A-2662	12	37	40.49
No. A-2663	12	41	44.87
No. A-2664	12	47	51.44
No. A-2665	12	51	55.81
No. A-2666	12	61	66.76
No. A-2667	13	20	23.71
No. A-2668	13	25	29.64
No. A-2669	13	29	34 38
No. A-2670	13	31	36.75
No. A-2671	13	40	47.42
No. A-2672	13	41	48.61
No. A-2673	13	50	59.28
No. A-2674	13	57	67.58
No. A-2675	13	62	73.51
No. A-2676	14	12	15.32
No. A-2677	14	17	21.71
No. A-2678	14	19	24.26
No. A-2679	14	23	29.37
No. A-2680	14	27	34.47
No. A-2681	14	31	39.58
No. A-2682	14	36	45.96
No. A-2683	14	38	48.52
No. A-2684	14	44	56.18
No. A-2685	14	50	63.84
No. A-2686	14	55	70.22
No. A-2687	14	60	76.61
No. A-2688	15	13	17.78
No. A-2689	15	17	23.26
No. A-2690	15	25	34.20
No. A-2691	15	28	38.30
No. A-2692	15	32	43.78
No. A-2693	15	37	50.62
No. A-2694	15	41	56.09
No. A-2695	15	47	64.30
No. A-2696	15	54	73.87
No. A-2697	15	62	84.82
No. A-2698	16	9	12.67
No. A-2699	16	12	17.03
No. A-2700	16	15	21.29
No. A-2701	16	16	22.71
No. A-2702	16	20	28.38
No. A-2703	16	21	29.80
No. A-2704	16	27	38.32
No. A-2705	16	34	48.25
No. A-2706	16	36	51 09
No. A-2708	16	38	53.93
No. A-2709	16	40	56.77
No. A-2710	16	42	59.62
No. A-2711	16	49	69.54
No. A-2712	18	15	24.62
No. A-2713	18	25	41.04
No. A-2714	18	32	52.53
No. A-2715	18	39	64.02
No. A-2716	18	47	77.15
No. A-2717	18	51	83.72
No. A-2718	18	62	101.78
No. A-2719	18	67	109.99
No. A-2720	20	24	43.78
No. A-2721	20	27	49.25
No. A-2722	20	36	65.66
No. A-2723	20	39	71.13
No. A-2724	20	42	76.61
No. A-2725	20	48	87.55
No. A-2726	20	50	91.20
No. A-2727	20	51	93.02
No. A-2728	22	24	48.15
No. A-2729	22	29	58.18
No. A-2730	22	36	72.23
No. A-2731	22	42	84.27
No. A-2732	22	47	94.30
No. A-2733	24	16	35.02
No. A-2734	24	25	54.72
No. A-2735	24	31	67.85
No. A-2736	24	36	78.80
No. A-2737	24	38	83.17
No. A-2738	24	41	89.74
No. A-2739	26	25	59.28
No. A-2740	26	30	71.14
No. A-2741	26	47	111.45
No. A-2742	26	52	123.30
No. A-2743	28	31	79.16
No. A-2744	28	36	91.93
No. A-2745	28	43	109.80
No. A-2746	28	51	130.23
No. A-2747	28	57	145.56

WHITE WOVEN COTTON BELTING.



This belt being woven, it cannot be made endless other than by means of belt hooks or lacing. It is used entirely for elevator purposes.

Always in stock. It is new and first class quality.

No. 3-A-9. TWO PLY.

Width Inches	Price Per Ft.	Width Inches	Price Per Ft.	Width Inches	Price Per Ft.
1	$0.01½	2½	$0.02½	4	$0.03½
1½	.02	3	.03	5	.05½
2	.02½	3½	.03½	6	.06½

No. 3-A-10. THREE PLY.

1½	$0.02½	5	$0.07½	10	$0.15½
2	.03½	5½	.08½	12	.19
2½	.04½	6	.09½	14	.24
3	.04½	6½	.10½	16	.29
3½	.05½	7	.10½	18	.33
4	.06	8	.12½	20	.36
4½	.06½	9	.14		

No. 3-A-11. FOUR PLY.

Width Inches	Price Per Foot	Width Inches	Price Per Foot	Width Inches	Price Per Foot
1	$0.03½	8	$0.15	16	$0.36
4½	.03½	9	.17½	18	.40
5	.10½	10	.20	20	.46
6	.12	12	.24	22	.54
7	.13½	14	.30		

No. 3-A-12. FIVE PLY.

Width Inches	Price Per Foot	Width Inches	Price Per Foot	Width Inches	Price Per Foot
4	$0.13½	8	$0.20	16	$0.45
4½	.14½	9	.22	18	.51
5	.15	10	.25	20	.57
5½	.16	12	.30	22	.65
6	.16½	14	.37	24	.72
7	.18				

No. 3-A-13. SIX PLY.

Width Inches	Price Per Foot	Width Inches	Price Per Foot	Width Inches	Price Per Foot
6	$0.18½	10	$0.30	18	$0.60
7	.20	12	.36	20	.69
8	.23	14	.45	22	.78
9	.26	16	.54	24	.86

SHEET PACKING.

CLOTH INSERTION PACKING.

No. 3-A-14. Used by engineers and steam users in general. It combines smoothness of finish, strength of cloth insertion, pliability and durability. In rolls 36 inches wide. We do not cut the rolls lengthwise, but will furnish any quantity 1 yard wide. Thickness 1–32, 1–16, 3–32, ⅛, 3–16, ¼ inch.

Price per lb.....$0.11½

RED SHEET PACKING.

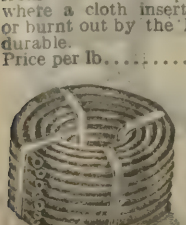
No. 3-A-15. Equal to the highest grade on the market. It is intended for general use and will not harden under the most extreme heat, and is very satisfactory for making gaskets, etc. Put up in rolls 36 inches wide. We do not cut rolls lengthwise, but will furnish any quantity one yard wide and any length desired. Sizes in stock 1–32 to ¼ inch.

Price per lb.....$0.45

WIRE INSERTION PACKING.

No. 3-A-16. This packing comes in thicknesses from 1–16 inch up. It is used in hot joints where a cloth insertion packing would be rotted or burnt out by the heat. It is very strong and durable.

Price per lb.....$0.32

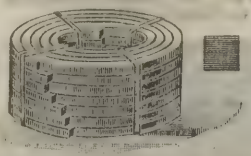


No. 3-A-17. Round Duck Packing. Made of heavy frictioned cotton duck, wrapped around a rubber core center and vulcanized together. Made in 12 foot lengths. Sizes ¼ to 2 inches diameter.

Price per lb.....$0.30

No. 3-A-18. Asbestos Wick Packing. Is made of the purest asbestos fiber, is absolutely acid and fireproof and is used for packing small steam pumps, tubes, valve stems, and for similar purposes. It is put up in balls weighing ½ lb.

Price per ball.....$0.13



No. 3-A-19. Square White Friction Packing. For hot water packing. Made with an excellent friction. Under a high pressure it swells very little in service.

Price per lb. $0.45

No. 3-A-20. Square Black Friction Packing. For ordinary cold water use. Sizes ¼ inch and larger Price per lb.....$0.26

No. 3-A-21. Square Hydraulic Piston Packing. Extra fine and will stand hard service. Sizes ¼ to 2 inches. Price per lb.....$0.45

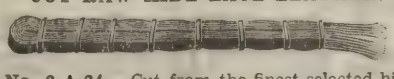
No. 3-A-22. Square Flax Packing. Highest grade, manufactured from long fiber flax on the most improved machine, and saturated with an excellent lubricant. It is used in the water end of pumps and hydraulic elevators. In stock sizes as follows: ¼, ⅜, ½, ¾ and 1 inch.

Price per lb.....$0.25

No. 3-A-23. Spiral Graphite Packing. Made of the very best quality of stock, guaranteed to give satisfaction. Put up in boxes containing 12 feet, and in sizes from ⅛ to 1 inch.

Price per lb. (any size).....$0.60

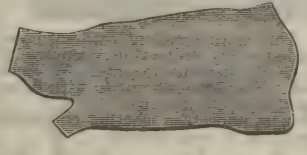
CUT RAW HIDE LACE LEATHER.



No. 3-A-24. Cut from the finest selected hides. Put up in bundles containing 100 feet. We guarantee that this is the toughest and best quality of cut lace leather on the market.

Width Inches	Price per 100 feet	Width Inches	Price per 100 feet
¼	$0.58	½	$1.15
5–16	.72	⅝	1.50
⅜	.87	¾	1.80

LACE LEATHER.



No. 3-A-25. Raw Hide Lace Leather, made from the strongest, toughest, native hides. We do not cut sides.

Price per side

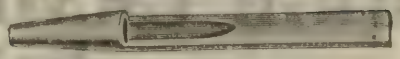
Sides containing about 6 sq. ft.	$1.50
Sides containing about 8 sq. ft.	1.95
Sides containing about 10 sq. ft.	2.50
Sides containing about 12 sq. ft.	2.90
Sides containing about 15 sq. ft.	3.75
Sides containing about 17 sq. ft.	4.25

ADJUSTABLE LACE LEATHER CUTTERS.

No. 3-A-26. Made especially for cutting Raw Hide Lace Leather. Cutters of finely tempered steel.

Price each.....$0.22

BELT PUNCHES.



No. 3-A-27. To drive. Made of solid tool steel, drilled and reamed.

Size No.	Size Hole Inches	Price Each	Size No.	Size Hole Inches	Price Each
4		$0.10	11		$0.16
5		.10	12		.17
6		.10	13		.20
7		.12	14		.25
8		.13	15		.27
9		.14	16		.29
10		.15			

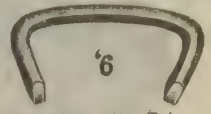
BELT HOOKS.

No. 3-A-28. Improved Steel Belt Hooks, chisel pointed with square shoulders, preventing spreading when driven through the belt. Made in five sizes and are put up 200 in a box.

	Price per box
Size No. 0. For single leather and light rubber belts	$0.12
Size No. 00. For double leather belts	.15
Size No. 1. For all belts less than 4 ply	.15
Size No. 2. For belts 4 to 6 ply	.15
Size No. 3. For belts 6 to 10 ply	.15

OVAL POINTED BELT HOOKS.

Made of Norway iron, with oval points. Will not break in clinching. Are put up 250 in a box.



No. 3-A-29.

No.	Length	Price per Box	No.	Length.	Price per box.
12	¾	$0.13	8	1½	$0.25
11	⅞	.16	7	1⅝	.35
10	1	.20	6	1¾	.46
9	1⅛	$0.23			

GIANT BELT HOOKS.

No. 3-A-30. For leather, rubber and cotton belts. No tool required but a hammer to insert them. Put up in boxes containing 250.

	Price per Box
Size A. For single leather belts	$0.35
Size C. For double leather belts	.50
Size D. For 3 and 4 ply rubber and cotton belts	.50
Size E. For 5 and 6 ply rubber and cotton belts	.60

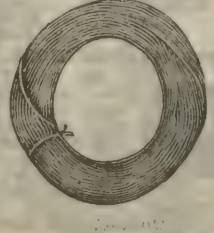
STEEL BELT LACING.

No. 3-A-31. This is the only strictly modern lacing of its kind on the market. There is plenty of space between the teeth, and therefore does not cut away the belt making it weak where it should be strong. The sharp corners have been taken off the teeth so they will not cut the fiber of the belt.

Comes packed in boxes containing 100 inches in assorted lengths.

	Price per Box
Size No. 1. For single leather belt	$0.48
Size No. 3. For double leather belt	1.00
Size No. 11. For 3 and 4 ply rubber or cotton belt	.90
Size No. 13. For 5 ply rubber or cotton belt	1.15
Size No. 14. For 6 ply rubber or cotton belt	1.40

COMPOSITION WIRE BELT LACE.



No. 3-A-32. We guarantee this to be the strongest wire belt lace manufactured, its tensile strength being 2,000 lbs., and will stand a far greater strain than is estimated in the driving capacity of a belt. It lays flush with the surface of the belt and is better than hooks. Put up in boxes of 50 feet.

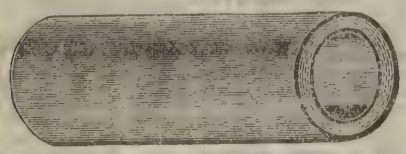
	Price per Box
Size No. 1. For belts 6 inches wide and under	$0.20
Size No. 2. For all double leather belts wider than 8 inches and for all rubber belts 5 ply or heavier	.25

HIGH GRADE RUBBER GARDEN HOSE

For Sprinkling and Fire Protection.

We offer exceptional values in this line. All hose is new, fresh stock, being made up especially for us and every length is guaranteed as represented. We do not handle the competition hose, which is not reliable and therefore cannot be guaranteed.

WE GUARANTEE our hose to give perfect satisfaction, and if it is returned to us at any time within one year from date of purchase, we will replace it without charge. This guarantee applies only providing the hose has not been abused. By this we mean it should not be allowed to kink. Hose kinking is due only to one thing: that is careless handling. Before putting hose away, it should be drained carefully. If this is not done, the result is that the inner tube will decay. We recommend that you use a reel in connection with garden hose. This will assure the hose being drained after being used, which will greatly increase the life of the hose and pay for the reel several times over.



LEADER HOSE.

No. 3-A-33. 4 Ply Leader Hose, made with best quality rubber inner tube, four closely woven, cotton layers or plies, with heavy rubber coating between each ply. The outer coating is of rubber and of the same thickness as used on our better grades of hose.

This lot of hose is recommended on light or medium pressure. Furnished only in 25 and 50 foot lengths. Price includes couplings.

Size inside dia.	½ inch	¾ inch
Price 25 ft	$1.80	$2.00
Price 50 ft	2.50	4.00

All ½ inch hose couplings fit ¾ inch connections.

WIZARD HOSE.

No. 3-A-34. 5 Ply Wizard Hose. We advise the use of this grade of hose for ordinary pressure. It is made in the same general manner as our Leader Hose, but the plies are heavier, making a stronger and more durable hose, which is less liable to bend or kink. With reasonable care this hose will last two or three seasons. Furnished only in 25 and 50 foot lengths. Price includes couplings.

Size inside diameter	½ inch	¾ inch	1 inch
Price 25 ft	$2.00	$2.50	$3.50
Price 50 ft	3.95	4.75	6.25

TIGER HOSE.

No. 3-A-35. 6 Ply Tiger Hose. Built for heavy pressure. Plies are made of heavier cotton duck than used in our lower priced hose. The inner tubing and covering are made of the highest grade of rubber used for this purpose. Furnished only in 25 and 50 foot lengths.

Price includes couplings.

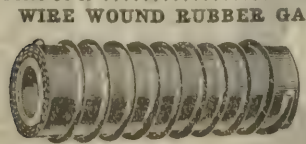
Size inside diameter.	½ inch	¾ inch	1 inch
Price 25 ft	$2.50	$2.90	$3.70
Price 50 ft	4.80	5.50	7.00

BOSTON TERRIER HOSE.

No. 3-A-36. 7 Ply Boston Terrier Hose. Guaranteed to stand the heaviest water works pressure, and to be the best garden hose manufactured. If your city has a high pressure water works system, this is the hose we recommend. With proper care it will last for years. Furnished only in 25 and 50 foot lengths. Price includes couplings.

Size inside diameter	¾ inch
Price 25 ft	$3.35
Price 50 ft	6.50

WIRE WOUND RUBBER GARDEN HOSE.

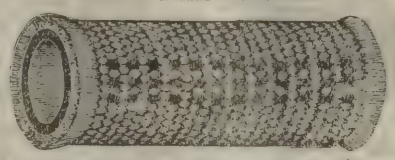


No. 3-A-37. We can wire wind any of the different lots of rubber garden hose. This protects the outer covering, and also prevents kinking.

Note our price does not include the hose but is for the wire winding.

Size, inches	½	¾	1
Price 25 ft	$0.75	$0.75	$1.00
Price 50 ft	1.50	1.50	2.00

BRAIDED COTTON COVERED RUBBER LINED GARDEN HOSE.



No. 3-A-38. The jacket is made of the most carefully selected Sea Island cotton of long fibre and woven very heavy and close; intended to resist hard usage. The tube is made of the finest "Para" rubber. This hose is guaranteed to give good service and to be satisfactory in every respect. It is in every sense a strong, durable and lasting hose. We offer but one grade and that is the best, suitable for heavy pressure. Price includes couplings. Furnished only in 25 and 50 foot lengths.

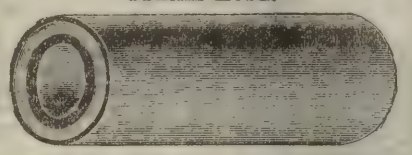
Size inside diameter	¾ inch
Price 25 ft	$2.55
Price 50 ft	4.90

WATER HOSE FOR GENERAL PURPOSES.

No. 3-A-39. This is a high grade hose and a better quality than used for lawn and sprinkling purposes. It is made to stand hard usage. We furnish it in lengths of 10, 15, 25, 35 and 50 feet. Prices do not include couplings.

Inside Diam. Inches	4 Ply	5 Ply	6 Ply
1	$0.15	$0.19	$0.23
1¼	.18	.23	.28
1½	.23	.28	.34
2	.30	.38	.45

STEAM HOSE.



No. 3-A-40. This is an extra high grade hose, the inner tube of which is specially compounded to resist the action of heat. Walls are made of heavy duck and guaranteed fully in every particular.

Inside Diameter Inches	3 Ply for 20 lbs. steam or less Per Ft.	4 Ply for 35 lbs. steam or less Per Ft.	5 Ply for 50 lbs. steam or less Per Ft.	6 Ply for 75 lbs. steam or less Per Ft.
¾	$0.16	$0.19	$0.23	$0.27
1	.20	.25	.30	.36
1	.25	.30	.37	.43
1¼	.31	.40	.47	.56

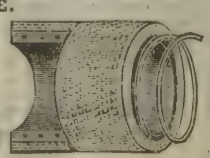
UNLINED LINEN HOSE.

No. 3-A-41. This is an excellent grade of hose, used for all ordinary fire protection purposes in factories, hotels, public institutions, etc. Will not become mildewed. Furnished complete with brass couplings in 50 and 100 foot lengths.

In ordering be sure and state whether couplings are to fit standard iron or hose thread.

Size, Inches	1½	1½	2	2½
Price 50 ft. length	$5.25	$ 5.75	$ 6.75	$ 8.50
Price 100 ft. length	9.50	10.50	12.25	14.00

RED WOVEN COTTON COVERED SUCTION HOSE.



No. 3-A-45. This is a smooth bore hose and is non-kinkable. Owing to the heavy woven cotton cover this hose will stand the hardest usage and will outwear any other suction hose manufactured. Has enlarged soft rubber ends to fit over 2 inch tank pump connection, and is sold in lengths of 10, 15, 20 and 25 feet.

Size inside diameter	2 Inches
Price per ft	$0.39

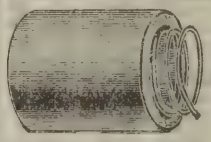
COTTON RUBBER LINED FIRE HOSE.

No. 3-A-42. Suitable for mills, factories, hotels, public institutions, etc., for fire protection purposes.

This is a single jacketed cotton rubber lined mill hose, tested to 250 pounds and furnished complete with automatic brass couplings which require no clamps. Every length fully guaranteed. In ordering be sure and state whether the couplings are to fit standard iron pipe or hose thread.

Inside Diameter Inches	Price Per Length 25 Ft.	Price Per Length 50 Ft.
1½	$ 4.75	$ 9.00
1½	4.95	9.50
2	6.30	12.00
2½	7.95	14.75

NON-KINKABLE TWO-INCH SMOOTH BORE TANK HOSE.

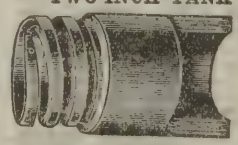


No. 3-A-44. Owing to the special construction of this hose it can be bent double without kinking, and for this reason will outwear any tank hose on the market. The smooth bore makes it less possible for dirt to lodge in the hose and therefore increases its lasting qualities.

We furnish in lengths of 10, 15, 20 and 25 feet only. Made with soft rubber ends to fit over tank pump connection.

Size inside diameter	2 Inches
Price per ft	$0.26

TWO-INCH TANK SUCTION HOSE.



No. 3-A-46. This is the regular standard Thresherman's Suction Hose, made with smooth bore, with steel wire inserted in walls to prevent collapsing. Has large rubber ends and will fit over 2 inch tank pump connection. Sold in lengths of 10, 15, 20 and 25 feet only.

Size inside diameter	2 Inches
Price per ft	$0.23

HARD RUBBER SUCTION HOSE.

No. 3-A-43. Hard Rubber Suction Hose, smooth bore, extra heavy walls which will prevent collapsing when in use. Sold in lengths in multiples of 5 feet to fifty feet inclusive. Prices do not include couplings or clamps.

Size, Inches	¾	1	1¼	1½
Price per ft	$0.16	$0.19	$0.21	$0.24

HOSE REELS.

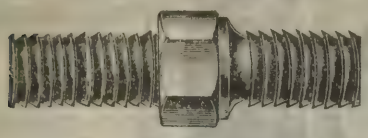
No. 3-A-47. The use of a reel is recommended as it drains the hose when winding in; also prevents the unnecessary wear occasioned by dragging the hose around when a reel is not used. **Be sure and order a reel with your hose.**

No. 3-A-47½. These reels are oil finished, hardwood frame, iron wheels, capacity 100 ft. of ¾-inch hose.

Price each.....$0.60

HOSE COUPLINGS, NOZZLES AND SPRINKLERS

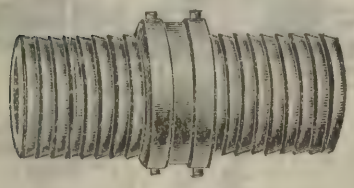
STEAM HOSE COUPLINGS.



No. 3-A-55. Order couplings the same size as inside diameter of hose. Price is per pair without clamps.

Size hose, in.	½	¾	1	1¼	1½	2
Price each	$0.45	$0.47	$0.52	$0.75	$0.87	$1.22

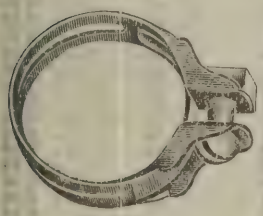
WATER HOSE COUPLINGS.



No. 3-A-56. Order couplings same size as inside diameter of hose. Price is per pair without clamps.

Size hose, in.	½	¾	1	1¼	1½	2	2½
Price per pair	$0.07	$0.08	$0.12	$0.26	$0.42	$0.74	$1.25

GALVANIZED WROUGHT STEEL HOSE CLAMPS.

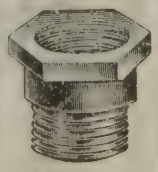


No. 3-A-57. Order clamps same size as diameter of hose, except for 2 inch tank hose, which requires 2¼ inch clamps.

Size hose inches	Price per pair
½	$0.01
¾	.02
1	.03
1¼	.04
1½	.05
2	.06
2¼	.09

HOSE REDUCERS.

No. 3-A-58.



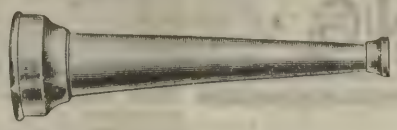
Size Inches	Price Each	Size Inches	Price Each
1 x ¾	$0.29	2 x 1¼	$0.71
1¼ x ¾	.36	2 x 1½	.80
1¼ x 1	.44	2½ x ¾	.89
1½ x ¾	.51	2½ x 1	.98
1½ x 1	.51	2½ x 1¼	1.02
1½ x 1¼	.53	2½ x 1½	1.07
2 x ¾	.58	2½ x 2	1.16
2 x 1	.62		

HOSE PIPES.

No. 3-A-60.

Size Inches	Length Inches	Price Each	Size Inches	Length Inches	Price Each
½	7½	$0.28	2	12	$1.60
¾	12	.50	2	15	1.87
1	8½	.40	2	20	2.06
1	12½	.60	2½	15	3.05
1¼	12	.83	2½	20	3.87
1¼	15	.97	2½	24	4.03
1½	13	1.07	2½	30	5.83
1½	15	1.26	2½	36	6.34

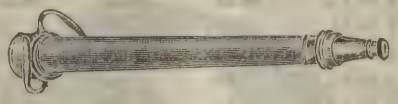
HOSE NOZZLES.



No. 3-A-61.

Size Inches	Length Inches	Price Each	Size Inches	Length Inches	Price Each
¾	3	$0.18	1¼	12	$0.84
¾	8	.28	2	6½	1.02
1	4	.22	2	12	1.36
1	4½	.48	2½	7½	1.38
1½	12	.59	2½	12	2.10
1½	5½	.69	2½	15	2.38

THE "UNDERWRITERS" PIPE.

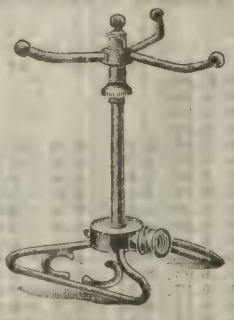


No. 3-A-62. 2½ x 30 inches, Screw Nozzle, Swivel Handle, wound and painted.
Price each.....$5.50

"PREMIER" LAWN SPRINKLER.

No. 3-A-48. Premier Revolving Lawn Sprinkler throws a fine spray, covers a large circle and distributes the water evenly. Mounted on runners which permit changing position without shutting off the water. Fits ¾" hose couplings.
Price each.....$0.85

WHIRLWIND REVOLVING LAWN SPRINKLER.



No. 3-A-49. This is the most popular Sprinkler offered. Sprinkler's height is 12". Spread of arms 13". Covers a large area. The head is easy running and will operate equally as well under a low as a high pressure. This is a very handsome lawn fixture and can be placed anywhere without shutting off the water. Will fit ¾" hose coupling.
Price each.....$1.00

LINCOLN PARK LAWN SPRINKLER.

No. 3-A-50. Mounted on spears which can be set into the ground. All threaded at the base with ¾" coupling. Price includes head and spears complete, as shown in illustration.

Height 2 ft.	Price	$0.75
Height 4 ft.	Price	.90
Height 6 ft.	Price	1.10

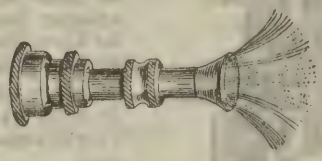
LINCOLN PARK LAWN SPRINKLER.

No. 3-A-51. This Sprinkler is generally used in parks, cemeteries, public grounds, etc., where pressure is heavy. No matter what position the hose or sprinkler may be in, the spoon revolves rapidly. Can be attached to hose or pipe.
Size ¾". Price.....$0.30
Size 1". Price.....35

NEW CENTURY LAWN SPRINKLER.

No. 3-A-52. New Century Lawn Sprinkler is the most sensible and practical sprinkler on the market. Stands 6" high when in operation and throws a fine spray. Is handsomely nickel plated, fitted with ¾" hose coupling.
Price each.....$0.25

SOLID BRASS HOSE NOZZLE.



No. 3-A-53. The "Gem" pattern will throw a solid stream or spray. Size for ¾" hose coupling.
Price each.....$0.20

SCREW TIP HOSE NOZZLE.

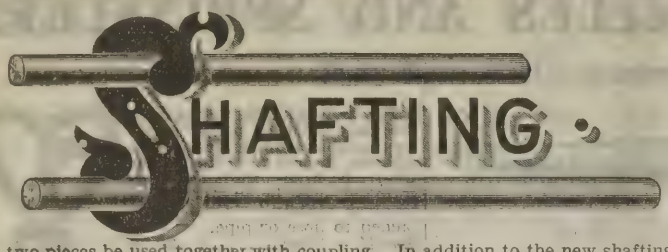
No. 3-A-54. Solid brass. Suitable for either water or steam hose. Will throw a spray or solid stream.

Size ¾". Price, each.....$0.26
Size 1". Price, each.....48

BRASS HOSE VALVES.

No. 3-A-59. Iron Wheels or Tee Handle.

Size Inches	Price Each
1¼	$2.00
2	2.50
2½	3.00



We carry a complete stock of brand new Cold Rolled Steel Shaft, which we would be pleased to furnish in sizes described at prices quoted, cut to such lengths as you may require. The longest full stock lengths are 24 feet. Where longer shafts are required, it would then be necessary that two pieces be used together with coupling. In addition to the new shafting we have a large stock of second hand shafting which we offer subject to the stock on hand at the time of receiving order.

When we are out of second hand shaft we will substitute new shafting at the prices quoted on new, unless we are advised to the contrary. We guarantee both our new and second hand shafting to be perfectly straight and true.

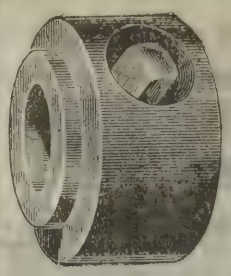
No. 11-A-1.

Size Inches	Weight per Ft.	Second Hand Price per Ft.	Brand New Price per Ft.
¾	1.50	$0.04	$0.05
1	22.67	.06¾	.08¼
1 3/16	8.76	.10½	.11½
1¼	4.17	.11	.12½
1 5/16	5.51	.14	.17
1½	6.	.15	.18
1 7/16	7.60	.18	.21½
1 11/16	10.	.23	.28
2 1/16	12.78	.29	.32½
2 3/16	15.86	.36	.44
2 7/16	19.29	.44	.53
2 11/16	23.04	.53	.63
3 1/16	27.13	.65	.78
3 5/16	31.56	.75	.91
3 7/16	36.31	.90	1.10
3 11/16	41.40	1.00	1.24

PRICES FOR KEY-SEATING SHAFTING.
New or Second Hand.
No. 11-A-2.

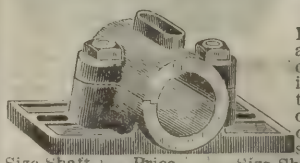
Diam. of Shaft	Key-seating for Coupling Each End	Key-seat 1 ft. Long	For each additional foot or fraction of it
¾ to 1 3/16	$0.30	$0.35	$0.25
1¼ to 1½	.35	.40	.30
1 11/16 to 1 15/16	.40	.50	.35
2 1/16 to 2 7/16	.50	.60	.45
2 11/16 to 2 15/16	.60	.70	.55
3 1/16 to 3 7/16	.65	.75	.60
3 11/16	.75	.85	.65

BRAND NEW SAFETY SET COLLARS.
No. 11-A-5.



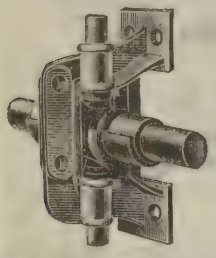
Size Inches	Price Each
¾	$0.13
1	.15
1 3/16	.16
1¼	.18
1 5/16	.20
1½	.22
1 11/16	.24
1 15/16	.28
2 1/16	.32
2 3/16	.36
2 7/16	.42
2 11/16	.48
3 1/16	.54
3 7/16	.60
3 11/16	.66
3 15/16	.72

BRAND NEW RIGID PILLOW BLOCKS.



No. 11-A-3. Heavy and suitable for all ordinary work, being babbited with the best grade of babbitt applicable for shaft service.

Size Shaft Inches	Price Each	Size Shaft Inches	Price Each
¾	$0.45	2 3/16	$1.40
1	.50	2 7/16	1.75
1 3/16	.55	2 11/16	2.10
1¼	.57	2 15/16	2.70
1 5/16	.70	3 1/16	3.30
1½	.75	3 7/16	3.90
1 11/16	.85	3 11/16	4.35
1 15/16	1.15	3 15/16	4.80



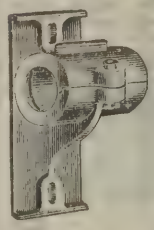
No. 11-A-4 These hangers are made with adjusting plunger screws, true ball and socket connection with bearing and ample adjustment.

BRAND NEW ADJUSTABLE BALL AND SOCKET DOUBLE BRACE POST HANGERS, WITH STANDARD BEARINGS.

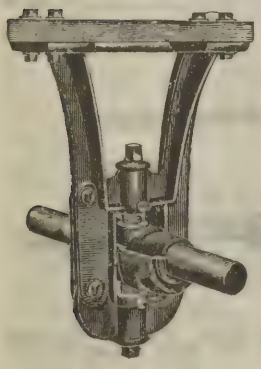
Size Inches	Price Each	Size Inches	Price Each
¾	$1.50	2 3/16	$3.40
1	1.55	2 7/16	3.65
1 3/16	1.60	2 11/16	4.55
1¼	1.75	2 15/16	5.25
1 5/16	1.85	3 1/16	5.70
1½	1.90	3 7/16	7.00
1 11/16	1.95	3 11/16	8.00
1 15/16	2.50	3 15/16	10.00

BRAND NEW RIGID POST BLOCKS.

No. 11-A-9. Standard bearing, lubricated through cup cast in cap. Boxes are babbitted with the very best grade of babbitt applicable to shaft service, and is securely anchored to the casting.



Size Inches	Price Each
¾	$1.26
1	1.26
1 3/16	1.26
1¼	1.23
1 5/16	1.26
1½	1.26
1 11/16	1.44
1 15/16	1.91
2 1/16	2.54
2 3/16	2.92
2 7/16	3.20
2 11/16	3.62
3 1/16	4.45
3 7/16	4.94
3 11/16	6.44
3 15/16	7.84



DROP HANGERS.
Brand New, Double Brace, Adjustable, Ball and Socket Drop Hangers, Standard Bearings.

No. 11-A-7. We use only the very best grade of babbitt applicable to shafting service, which is securely anchored to the castings and machined up by special process.

Size of Shaft In.	Drop in Inches 8	10	12	14	16	18	20	24	30	36
¾	$1.20	$1.40	$1.45	$1.55						
1	1.20	1.40	1.45	1.55						
1 3/16	1.25	1.45	1.50	1.60						
1¼	1.25	1.45	1.50	1.60						
1 5/16	1.75	1.80	1.85	1.95	$2.00	$2.15	$2.25			
1½	1.75	1.80	1.85	1.95	2.00	2.15	2.25			
1 11/16	1.80	1.85	1.90	2.00	2.10	2.20	2.35			
1 15/16	2.35	2.55	2.65	2.75	2.85	2.95	3.05	$3.35		
2 1/16	2.96	3.08	3.13	3.30	3.50	3.66	3.96	4.54	$ 5.34	$ 6.20
2 3/16	3.18	3.30	3.35	3.52	3.72	3.88	4.18	4.76	5.56	6.43
2 7/16	3.69	3.86	4.03	4.20	4.54	4.91	5.27	6.04	6.73	6.98
2 11/16	4.32	4.52	4.69	4.86	6.20	5.58	5.93	6.70	7.40	7.65
3 1/16		5.58	5.76	6.02	6.19	6.66	7.37	8.40	9.45	10.30
3 7/16		5.73	5.92	6.17	6.34	6.82	7.46	8.55	9.61	10.46
3 11/16		7.77	7.96	8.13	8.86	9.11	9.76	11.54	12.72	14.26
3 15/16		8.87	9.06	9.23	9.96	10.22	10.86	12.65	13.82	15.37

SECOND HAND DROP HANGERS.

No. 11-A-8. We offer second hand Drop Hangers, subject to stock on hand at time of receiving your order. Should we not have second hand hangers in the sizes specified, we will substitute new hangers, unless otherwise advised.

The boxes of all Drop Hangers are babbitted and are guaranteed to be in first class condition. Where necessary we re-babbitt. The hangers are thoroughly cleaned and painted and from any practical standpoint are as good as new.

Size of Shaft Inches	Drop in Inches 8	10	12	14	16	18	20	24	30	36
¾	$0.96	$1.00	$1.05	$1.11						
1	.96	1.00	1.05	1.11						
1 3/16	.99	1.03	1.08	1.14						
1¼	1.02	1.06	1.11	1.17						
1 5/16	1.22	1.26	1.31	1.38	$1.40	$1.50	$1.61			
1½	1.23	1.27	1.32	1.39	1.41	1.51	1.62			
1 11/16	1.25	1.29	1.34	1.40	1.43	1.53	1.64			
1 15/16	1.71	1.84	1.88	1.95	2.01	2.08	2.20	$2.41		
2 1/16	2.18	2.26	2.30	2.43	2.58	2.69	2.91	3.34	$3.93	$4.55
2 3/16	2.34	2.43	2.46	2.59	2.74	2.85	3.08	3.50	4.08	4.73
2 7/16	2.17	2.27	2.37	2.47	2.67	2.89	3.10	3.55	3.96	4.11
2 11/16	2.56	2.66	2.76	2.86	3.06	3.28	3.49	3.94	4.35	4.50
3 1/16		3.28	3.39	3.54	3.64	3.92	4.30	4.94	5.56	6.06
3 7/16		3.37	3.48	3.63	3.78	4.01	4.39	5.03	5.65	6.15
3 11/16		4.57	4.68	4.78	5.21	5.36	5.74	6 79	7.48	8.39
3 15/16		5.22	5.33	5.43	5.86	6.01	6.39	7.24	8.13	9.04

FLANGE COUPLINGS.

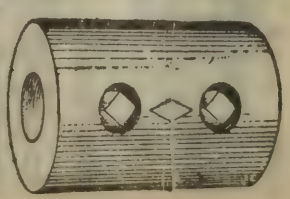
No. 11-A-6. We offer these couplings, both new and second hand. Orders for second hand couplings are subject to stock on hand at the time of receiving order. In event we are out of the second hand couplings, we will substitute new couplings, unless otherwise advised, at new prices.

Size Inches	Brand New	Second Hand
1 1/16	$ 3.00	$2.25
1 3/16	3.20	2.30
1¼	3.25	2.40
1 5/16	3.30	2.45
1 11/16	3.40	2.55
1 15/16	3.60	2.70
2 1/16	4.20	3.15
2 3/16	5.00	3.75
2 11/16	6.00	4.50
2 15/16	7.00	5.25
3 1/16	8.75	6.50
3 7/16	10.00	7.50
3 11/16	11.50	8.50
3 15/16	12.00	9.75

SOLID SLEEVE COUPLING.

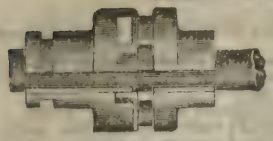
No. 11-A-10.
Brand new, only for light shafting.

Size Inches	Price Each
¾	$1.12
1	1.12
1 3/16	1.31
1¼	1.41
1 5/16	1.50
1½	1.50
1 11/16	1.69
1 15/16	2.06



JAW CLUTCH COUPLING.

Brand New Only.



We furnish these only in the square or spiral jaw. The spiral jaws are made either for right or left hand. Always specify in ordering spiral jaws. Note illustration.

No. 11-A-11. Square Jaw. Jaw which hand is wanted. Prices quoted on coupling do not include clutch band or lever.

No. 11-A-12.

Size Inches	Spiral Jaw Square of Spiral Jaw
¾	$ 2.80
1	2.82
1 1/16	3.55
1 1/4	3.57
1 3/16	4.35
1 1/2	4.38
1 11/16	5.21
1 15/16	5.77
2 1/16	7.14
2 3/16	8.24
2 7/16	8.96
2 11/16	10.08
3 1/16	11.26
3 7/16	12.49
3 11/16	13.79
3 15/16	15.25

Right

Left

CLUTCH BAND AND LEVER.

Size Inches	No. 11-A-13. Clutch Band Only	No. 11-A-14. Clutch Band and Lever Complete
¾	$0.26	$1.63
1	.28	1.64
1 1/16	.30	1.78
1 1/4	.31	1.79
1 3/16	.33	1.95
1 1/2	.34	1.96
1 11/16	.36	2.11
1 15/16	.39	2.12
2 1/16	.43	2.27
2 7/16	.46	2.60
2 11/16	.49	2.61
2 15/16	.56	2.92
3 1/16	.62	2.93
3 7/16	.65	3.25
3 11/16	.78	3.25
3 15/16	.85	3.58

HERCULES STEEL FACE PULLEYS.

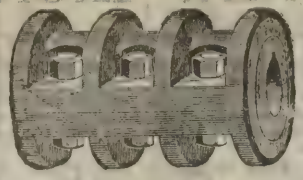
No. 11-A-15. We can furnish them only in the sizes as specified. Pulleys 8 inches and smaller can be furnished in any sizes up to and including 2 7/16 inches. Pulleys 10 inches and larger can be furnished to fit shafting up to and including 3 7/16 inches. The rim is formed from the best quality of cold rolled sheet steel. The arms are made of selected and thoroughly seasoned maple. The flanges and inner surface of the rim are painted and covered with varnish. The wood is soaked in hot linseed oil to prevent warping and coated with the best waterproof paint.

The rim is fastened to the center by bolts through the face and rivets through the flanges. These pulleys are made strong and light.

In consideration of a broken line of sizes, we are making the following special prices while they last.

Diam. Inches	Width of Face Inches. 3	4	5	6	8
10	$0.85	$0.90	$0.95		
12	.95				
14	1.00	1.10	1.20	$1.30	$1.50
16	1.15	1.25	1.35		
18	1.25	1.30			
20	1.30	1.55	1.75	1.90	
22		1.65	1.85	2.10	2.50
24			2.10		

RIBBED COMPRESSION COUPLINGS.

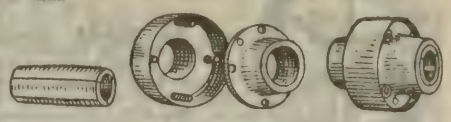


No. 11-A-17. We offer these couplings, both new and second hand. Orders for second hand couplings are subject to stock on hand at the time of receiving order. In event we are out of the second hand couplings, we will substitute new couplings, unless otherwise advised, at new prices.

Size Inches	Brand New	Second Hand	Size Inches	Brand New	Second Hand
¾	$ 1.10		2 3/16	$ 3.40	$3.55
1	1.15		2 7/16	3.75	2.85
1 3/16	1.20		2 11/16	4.15	3.00
1 1/4	1.25	$1.00	2 15/16	4.90	3.70
1 3/16	1.60	1.20	3 3/16	6.20	4.65
1 1/2	1.65	1.25	3 7/16	7.50	5.65
1 11/16	2.40	1.80	3 11/16	9.00	6.75
1 15/16	2.75	2.05	3 15/16	10.50	7.90

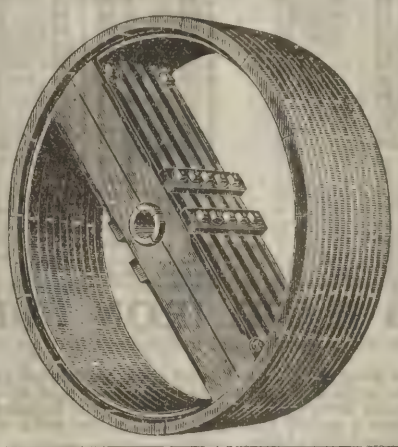
PATENT COMPRESSION COUPLINGS.

Brand New Only.



No. 11-A-18. Can be furnished in sizes as specified. We recommend the use of these couplings as it does away with the necessity of cutting keyseats which is necessary in the use of flange and ribbed compression couplings. The Patent Compression Coupling consists of a separable outer shell, tapering cone and a slotted inner sleeve which is tapered on the outside to fit the outer shell, which causes it to securely grip the shaft when the outer parts are drawn along over it by means of the bolts. These couplings are guaranteed to hold a shaft securely and not slip.

Diam. Inches	Price Each	Diam. Inches	Price Each
1 1/16	$1.75	2 3/16	$3.25
1 7/16	2.00	2 7/16	3.90
1 11/16	2.25	2 11/16	4.70
1 15/16	2.90		



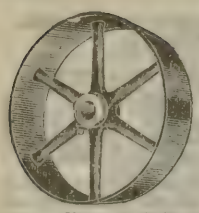
BRAND NEW WOOD SPLIT PULLEYS.

No. 11-A-16. We furnish these pulleys complete with bushings and guarantee that they will run perfectly true on the shaft.

A wood split pulley does not require either key seat or set screws. They are so constructed that they fit to the shaft by compression and will pull equally as heavy a load as an iron or any other kind of pulley without slipping.

We recommend the use of Wood Split Pulleys in all dry places.

Diam. In.	Face, Inches 3	4	5	6	8	10	12	14	16	18	20	22	24
4	$1.12	$1.16	$1.24	$1.32	$1.48	$1.64	$1.80						
5	1.14	1.18	1.28	1.36	1.54	1.72	1.90						
6	1.16	1.20	1.30	1.40	1.60	1.80	2.00						
7	1.18	1.22	1.34	1.44	1.66	1.88	2.10	$2.32					
8	1.20	1.24	1.36	1.48	1.72	1.96	2.20	2.44					
9	1.24	1.30	1.44	1.56	1.82	2.08	2.34	2.60					
10	1.30	1.36	1.50	1.64	1.92	2.20	2.48	2.76	$3.04				
11	1.40	1.48	1.64	1.80	2.12	2.44	2.76	3.08	3.40				
12	1.50	1.60	1.78	1.96	2.32	2.68	3.04	3.40	3.76	$4.12			
13		1.72	1.92	2.12	2.52	2.92	3.32	3.92	4.12	4.52			
14		1.84	2.06	2.28	2.72	3.16	3.60	4.04	4.48	4.92	$5.36		
15		1.96	2.20	2.44	2.92	3.40	3.88	4.36	4.84	5.32	5.80		
16		2.08	2.34	2.60	3.12	3.64	4.16	4.68	5.20	5.72	6.24	$6.76	
17		2.20	2.48	2.76	3.32	3.88	4.44	5.00	5.56	6.12	6.68	7.24	
18		2.32	2.62	2.92	3.52	4.12	4.72	5.32	5.92	6.52	7.12	7.72	$ 8.32
19		2.44	2.76	3.08	3.72	4.36	5.00	5.64	6.28	6.92	7.56	8.20	8.84
20		2.56	2.90	3.24	3.92	4.60	5.28	5.96	6.64	7.32	8.00	8.68	9.36
22		2.80	3.18	3.56	4.32	5.08	5.84	6.60	7.36	8.12	8.88	9.64	10.40
24		3.08	3.52	3.96	4.84	5.32	6.60	7.48	8.36	9.24	10.12	11.00	11.88
26		3.36	3.86	4.36	5.36	6.36	7.36	8.36	9.36	10.36	11.36	12.36	13.36
28		3.64	4.20	4.76	5.88	7.00	8.12	9.24	10.36	11.48	12.60	13.72	14.84
30		3.92	4.54	5.16	6.40	7.64	8.88	10.12	11.36	12 60	13.84	15.08	16.32
32		4.20	4.84	5.56	6.92	8.28	9.64	11.00	12.36	13.72	15.08	16.44	17.80
34		4.52	5.26	6.00	7.48	8.96	10.44	11.92	13.40	14.88	16.36	17.84	19.32
36		4.84	5.64	6.44	8.04	9.64	11.24	12.84	14.44	16.04	17.64	19.24	20.84
38				6.88	8.60	10.32	12.04	13.76	15.48	17.20	18.92	20.64	22.36
40				7.32	9.16	11.00	12.84	14.68	16.52	18.36	20.20	22.04	23.88
42				7.84	9.84	11.84	13.84	15.84	17.84	19.84	21.84	23.84	25.84
44				8.36	10.52	12.68	14.84	17.00	19.16	21.32	23.48	25.64	27.80
46				8.92	11.24	13.56	15.88	18.20	20.52	22.84	25.16	27.48	29.80
48				9.52	12.00	14.48	16.96	19.44	21.92	24.40	26.88	29.36	31.84
50				10.16	12.80	15.44	18.08	20.72	23.36	26.00	28.64	31.28	33.92
52				10.84	13.64	16.44	19.24	22.04	24.84	27.64	30.44	33.24	36.04
54				11.56	14.52	17.48	20.44	23.40	26.26	29.32	32.28	35.24	38.20
56				12.32	15.44	18.56	21.68	24.80	27.92	31.04	34.16	37.28	40.40
58				13.12	16.40	19.68	22.96	26.24	29.52	32.80	36.08	39.36	42.64
60				13.96	17.40	20.84	24.28	27.72	31.16	34.60	38.04	41.48	44.92
62				14.84	18.44	22.04	25.64	29.24	32.84	36.44	40.04	43.64	47.24
64				15.76	19.52	23.28	27.04	30.80	34.56	38.32	42.08	45.84	49.60
66				16.76	20.72	24.68	28.64	32.60	36.56	40.52	44.48	48.44	52.40
68				17.80	21.96	26.12	30.28	34.44	38.60	42.76	46.92	51.08	55.24
70				18.88	23.24	27.60	31.96	36.32	40.68	45.04	49.40	53.76	58.12
72				20.00	24.56	28.84	33.68	38.24	42.80	47.36	51.92	56.48	61.04
78					28.76	33.92	39.08	44.24	49.40	54.56	59.72	64.88	70.04
84					33.32	39.08	44.84	50.60	56.36	62.12	67.88	73.64	79.40
90					38.24	44.60	50.96	57.32	63.68	70.04	76.40	82.94	89.12
96					43.60	50.60	57.60	64.60	71.60	78.60	85.60	92.60	99.60
102					49.48	57.20	64.92	72.64	80.36	88.08	95.80	103.32	111.24
108					55.72	64.16	72.60	81.04	89.48	97.92	106.36	114.80	123.24
114					62.32	71.48	80.64	89.80	97.96	108.12	117.28	126.44	135.60
120					69.28	79.16	89.04	98.92	108.80	118.68	128.56	138.44	148.32



BRAND NEW IRON PULLEYS

No. 11-A-19. Our pulleys are made of the very best quality of gray iron, and are machine moulded and are guaranteed to be perfectly balanced.

We offer pulleys both in single and double belt. The single belt pulleys are used to transmit power of a single leather or 4 ply rubber belt. However, where a double leather or a 5 or 6 ply rubber belt is used for heavy transmission of power, a double belt pulley will be required. For all ordinary work single belt pulleys are sufficiently heavy.

We will furnish these pulleys bored to fit any size shaft and fitted with either set screws or key seated as you may prefer.

Prices below quoted refer to tight pulleys only. Where you wish the pulleys in pairs, one to run tight and the other loose, there will be an extra charge as noted below.

Dia. In.	Face In.	Sgle Belt	Dble Belt
4	3	$ 0.95	
4	4	1.00	
4	5	1.15	
4	6	1.25	
5	3	.95	
5	4	1.00	
5	5	1.15	
5	6	1.25	
6	3	.95	
6	4	1.00	
6	5	1.15	
6	6	1.25	
6	7	1.35	
6	8	1.40	
7	3	1.05	
7	4	1.10	
7	5	1.15	
7	6	1.30	
7	7	1.40	
7	8	1.50	
8	3	1.10	
8	4	1.20	
8	5	1.30	
8	6	1.45	
8	7	1.50	
8	8	1.70	
8	9	1.75	
8	10	2.00	
9	3	1.20	
9	4	1.30	
9	5	1.40	
9	6	1.50	
9	7	1.70	
9	8	$ 1.85	
10	3	1.25	
10	4	1.35	
10	5	1.50	
10	6	1.70	
10	7	1.85	
10	8	2.00	
10	9	2.20	
10	10	2.35	
10	12	2.75	
12	3	1.40	$ 1.85
12	4	1.50	2.10
12	5	1.75	2.30
12	6	1.90	2.65
12	8	2.25	3.15
12	10	2.65	3.75
12	12	3.10	4.35
13	3	1.50	1.95
13	4	1.65	2.20
13	5	1.85	2.50
13	6	2.00	2.80
13	8	2.45	3.40
13	10	2.85	4.00
13	12	3.30	4.70
13	14	3.85	5.40
14	3	1.60	2.10
14	4	1.75	2.35
14	5	1.95	2.65
14	6	2.15	2.90
14	8	2.60	3.60
14	10	3.00	4.30
14	12	3.50	5.00
14	14	4.10	5.80
15	3	1.70	2.20
15	4	1.85	2.50
15	5	2.05	2.80
15	6	2.30	3.15
15	8	2.75	3.80
15	10	3.20	4.50
15	12	3.75	5.35
15	14	4.35	6.00
16	3	1.80	2.35
16	4	1.95	2.65
16	5	2.20	3.00
16	6	2.45	3.35
16	8	2.90	4.10
16	10	3.40	4.90
16	12	4.00	5.70
16	14	4.75	6.60
17	3	1.90	2.50
17	4	2.10	2.80
17	5	2.35	3.20
17	6	2.60	3.55
17	8	3.10	4.35
17	10	3.65	5.20
17	12	4.25	6.10
17	14	5.00	7.00
18	3	2.00	2.60
18	4	2.20	2.90
18	5	2.45	3.35
18	6	2.75	3.80
18	8	3.30	4.65
18	10	3.85	5.55
18	12	4.55	6.50
18	14	$ 5.40	$ 7.55
20	4	2.45	3.30
20	5	2.75	3.75
20	6	3.10	4.30
20	8	3.75	5.30
20	10	4.40	6.40
20	12	5.20	7.50
20	14	6.20	7.70
22	4	2.75	3.70
22	5	3.00	4.20
22	6	3.45	4.80
22	8	4.20	6.00
22	10	4.95	7.25
22	12	5.80	8.50
22	14	7.00	9.85
24	4	3.05	4.05
24	5	3.40	4.65
24	6	3.80	5.30
24	8	4.65	6.70
24	10	5.55	8.10
24	12	6.55	9.50
24	14	7.85	11.00
26	4	3.45	4.55
26	5	3.80	5.20
26	6	4.30	5.95
26	8	5.25	7.45
26	10	6.30	9.00
26	12	7.50	10.55
26	14	8.80	12.00
28	4	3.85	5.00
28	5	4.25	5.60
28	6	4.75	6.50
28	8	$ 5.60	$ 8.20
28	10	6.55	9.90
28	12	8.40	11.65
28	14	9.75	13.50
30	4	4.25	5.50
30	5	4.70	6.30
30	6	5.25	7.25
30	8	6.50	9.00
30	10	7.85	10.80
30	12	9.30	12.75
30	14	10.75	14.50
32	4	4.70	6.00
32	5	5.00	7.00
32	6	5.50	8.00
32	8	7.00	9.50
32	10	8.50	11.50
32	12	10.00	14.00
32	14	11.50	15.00
34	4	5.00	6.50
34	5	5.75	7.50
34	6	6.00	8.50
34	8	7.50	10.50
34	10	9.50	13.00
34	12	11.00	15.00
34	14	12.50	17.00
36	4	5.50	7.00
36	5	6.00	8.00
36	6	7.00	9.00
36	8	8.00	11.00
36	10	9.50	13.00
36	12	11.75	15.00
36	14	13.00	17.50

SECOND HAND IRON PULLEYS

No. 11-A-20. We generally have in stock a great many second hand iron pulleys that are in first class condition, perfectly balanced and for further practical use are as good as new.

Our stock in this line is constantly changing, and while we offer a line of sizes, we cannot guarantee to furnish second hand pulleys in every instance, and when we are out of second hand pulleys, as ordered, we will take the liberty of substituting new iron pulleys at new price as quoted.

The second hand iron pulleys we offer, fitted with set screws only. Where a pulley is specified "key-seated" we will do this work, making an extra charge therefor. Should it so happen that we have a second hand iron pulley in our stock of the size and bore ordered, fitted with key-seats, we of course, would furnish it at prices quoted, making no extra charge.

Dia. In.	Face In.	Sgle Belt	Dble Belt
12	4	$ .70	
12	5	.83	
12	6	.96	
12	8	1.15	
12	10	1.35	
12	12	1.55	
14	4	.90	
14	5	.98	
14	6	1.08	
14	8	1.30	
14	10	1.50	
14	12	1.85	
16	4	1.00	
16	5	1.10	
16	6	1.25	
16	7	1.35	
16	8	1.45	
16	10	1.70	
16	11	1.85	
16	12	2.00	
18	4	1.10	
18	5	1.25	
18	6	1.35	
18	8	1.65	
18	10	1.95	
18	12	2.25	
18	14	2.70	
18	16	3.15	
20	4	1.25	
20	5	1.40	
20	6	1.55	
20	8	1.90	
20	10	2.20	
20	11	2.40	
20	12	2.60	
20	14	3.10	
20	16	3.60	
22	4	1.40	
22	5	1.60	
22	6	$ 1.70	
22	8	2.10	
22	10	2.50	
22	11	2.70	
22	12	2.90	
22	14	3.50	
22	16	4.10	$ 5.60
24	4	1.50	2.05
24	5	1.70	2.35
24	6	1.90	2.05
24	8	2.30	3.35
24	10	2.75	4.05
24	12	3.30	4.75
24	14	3.90	5.50
24	16	4.60	6.25
26	4	1.70	2.30
26	5	1.90	2.65
26	6	2.15	3.00
26	8	2.65	3.75
26	10	3.15	4.50
26	11	3.45	4.90
26	12	3.75	5.25
26	14	4.40	6.15
26	16	5.10	7.00
28	4	1.90	2.50
28	5	2.10	2.85
28	6	2.35	3.30
28	7	2.65	3.70
28	8	2.90	4.10
28	9	3.20	4.50
28	10	3.30	4.95
28	11	3.85	5.40
28	12	4.20	5.85
28	14	4.90	6.25
28	16	5.65	7.75
30	4	2.15	2.75
30	5	2.35	3.15
30	6	2.65	3.65
30	7	2.95	4.05
30	8	3.25	4.50
30	9	$3.60	$ 4.95
30	10	3.95	5.40
30	11	4.30	5.90
30	12	4.65	6.40
30	14	5.40	7.50
30	16	6.15	8.55
32	4		3.05
32	5		3.50
32	6		4.00
32	7		4.50
32	8		4.95
32	9		5.55
32	10		5.95
32	11		6.50
32	12		7.00
32	14		8.20
32	16		9.40
34	4		3.40
34	5		3.90
34	6		4.40
34	7		4.95
34	8		5.40
34	9		5.45
34	10		6.00
34	11		6.55
34	12		7.65
34	14		8.90
34	16		10.20
36	4		3.70
36	5		4.25
36	6		4.80
36	7		5.40
36	8		5.95
36	9		6.50
36	10		7.10
36	11		7.70
36	12		8.90
36	14		7.70
38	4		4.10
38	5		4.30
38	6	$ 5.30	
38	7	5.90	
38	8	6.50	
38	9	7.10	
38	10	7.70	
38	11	8.35	
38	12	9.00	
38	14	10.40	
38	16	13.30	
40	4	4.50	
40	5	4.90	
40	6	5.75	
40	7	6.40	
40	8	7.05	
40	9	7.70	
40	10	8.35	
40	11	9.05	
40	12	9.70	
40	14	11.20	
40	16	13.20	
42	4	4.85	
42	5	5.55	
42	6	6.20	
42	7	6.90	
42	8	7.60	
42	9	8.30	
42	10	9.00	
42	11	9.70	
42	12	10.40	
42	14	12.00	
42	16	13.60	
44	4	5.25	
44	5	6.00	
44	6	6.75	
44	7	7.45	
44	8	8.20	
44	9	8.95	
44	10	9.70	
44	11	10.45	
44	12	11.33	
44	14		$12.90
44	15		14.63
46	4		5.70
46	5		6.45
46	7		8.00
46	8		8.80
46	9		9.60
46	10		10.40
46	11		11.20
46	12		12.05
46	14		13.80
46	16		15.65
46	18		17 50
46	20		19.35
46	22		21.20
46	24		23.05
46	26		24.95
46	28		26.90
48	4		6.15
48	5		6.95
48	6		7.75
48	7		8.60
48	8		9.45
48	9		10.30
48	10		11.15
48	11		12.00
48	12		12.90
48	14		14.75
48	16		16.70
48	18		18.65
48	20		20.60
48	22		22.55
48	24		24.50
48	26		26.50
48	28		28.50
54	6		9.45
54	7		10.35
54	8		11.25
54	9		12.15
54	10		13.15

EXTRA CHARGES FOR TIGHT AND LOOSE IRON PULLEYS.

These charges will be added to the cost of the pulley. For illustration—you may order a pair of tight and loose pulleys 6 inch diameter, 4 inch face, price $1.00 each $2.00

To this add the extra charge for tight and loose ..... $0.80 Net cost per pair 2.80

Diameter Inches	Price	Diameter Inches	Price	Diameter Inches	Price	Diameter Inches	Price
6 to 8	$0.80	15 and 16	$1.55	23 and 24	$2.20	32	$2.90
9 and 10	.95	17 and 18	1.65	25 and 26	2.40	34	3.10
11 and 12	1.20	19 and 20	1.90	28	2.50	36	3.25
13 and 14	1.30	21 and 22	2.00	30	2.70		

GEARS

All Kinds, New and Second-Hand

Bevel Gear Miter Gear Spur Gears

No. 11-A-21. Send us your specification. We have a large stock of second hand gears which it is impossible for us to list. The chances are that we can supply your requirements.

We are also in a position to furnish new gears, and should we not have second hand gears that would answer your purpose, we would be pleased to quote you a low price on new gears.

We furnish gears in pairs only. When writing us regarding gears be sure and give us the following information:

1. State whether gears required are spur, bevel or miter.
2. Give size of both gear and pinion.
3. State size of shaft on which each gear will run, and the speed of each shaft.
4. State the number of horse power that you wish to transmit.

With this information we will then be able to figure out what will be suitable for your purpose.

You will note from the illustrations that the spur gears are straight faced. The bevel gears have bevel face, the gear and pinion being of unequal diameter. Miter gears have bevel face, both gear and pinion being of equal diameter.

Brand New Sprocket Wheels

No. 11-A-24. To be used in connection with Link Belting.

We will furnish these bored to fit any size shaft not exceeding the size described in connection with each number.

In ordering be sure and state size of shaft and whether the sprockets are to be key-seated or set screws. Unless otherwise specified, they will be furnished with set screws.

No. 25—BORE 1 7-16 INCH AND LESS.

Diam. Inches	Teeth	Price Each	Diam. Inches	Teeth	Price Each
2	7	$0.60	7½	26	$1.00
2½	8	.63	8	28	1.05
2¾	9	.65	10	35	1.15
3	10	.68	12	42	1.20
3½	12	.70	13	45	1.30
4	14	.75	14½	50	1.45
5	17	.80	15	52	1.60
5½	19	.85	16	56	1.65
6	21	.90	18½	64	1.90
7	24	.95			

No. 32—BORE 1 7-16 INCH AND LESS.

2	5	$0.60	8¾	24	$1.30
2¾	7	.67	10	27	1.40
3	8	.70	11⅜	32	1.50
3½	9	.73	12½	34	1.60
4	11	.78	13¼	36	1.65
4½	12	.82	14	38	1.70
5¼	14	.92	15	41	1.75
6	16	.98	16½	45	1.90
7½	20	1.10	17¾	48	2.00
8	22	1.20	23¼	63	2.35

Nos. 33 and 34—BORE 1 7-16 INCH AND LESS.

2¼	6	$0.70	10¾	24	$1.40
3¼	8	.75	12	27	1.45
4	10	.85	13½	30	1.55
5	11	.90	15¼	34	1.75
6	13	.95	16	36	1.80
6½	15	1.00	18	40	1.85
7¼	18	1.10	18¾	42	1.95
8	18	1.15	24	54	2.60
9	20	1.25	28½	64	3.10

Nos. 35, 45, 55—BORE 1 5-16 INCH AND LESS.

2¾	5	$0 80	17½	33	$2.25
3¾	7	.90	18¼	35	2.50
4¾	9	1.00	20	38	2.55
5¼	11	1.10	21⅜	42	2.85
6¼	13	1.15	22¾	44	3.05
7¼	15	1.30	23¾	46	3.25
8¼	17	1.45	25	48	3.40
10	19	1.55	26	50	3.60
11	21	1.65	28	54	3.95
12	23	1.75	30	58	4.35
13	25	1.85	31½	60	4.70
15	29	2.00	35½	69	5.80
16	31	2.15			

LINK CHAIN BELTING

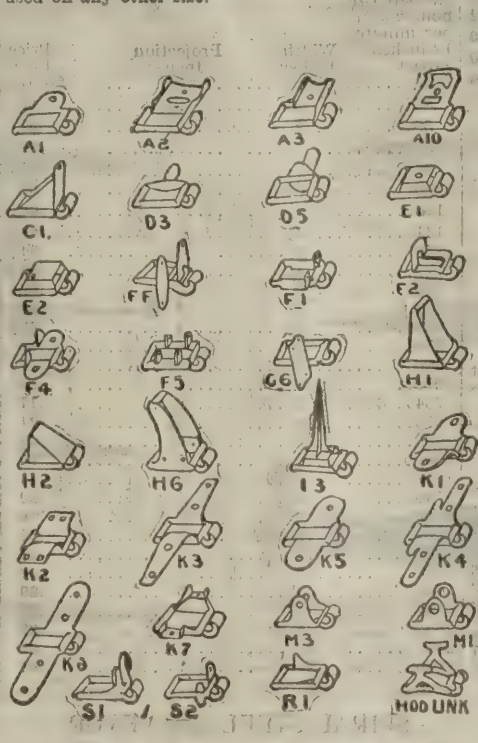
No. 11-A-22. Brand new, for use on Mowers, Reapers, Binders, Corn and Wheat Drills, Corn Shellers, Straw Stackers, Feed Cutters, Saw Dust Conveyors, etc.

When ordering chain be sure and give number. If the chain is so worn that number is effaced, it is advisable to send a sample link.

No.	Links per Ft.	Working Strain	Approximate Leather Belting in. Single per Ft.	Price
25	13.3	75 lbs.	1 in.	$0.06
32	10.4	150 lbs.	1¼ in.	.06
33	8.6	200 lbs.	2 in.	.06
34	8.6	225 lbs.	2¼ in.	.06
35	7.4	250 lbs.	2½ in.	.07
42	8.8	300 lbs.	3 in.	.06
45	7.4	350 lbs.	3½ in.	.07
51	10.4	375 lbs.	3¾ in.	.10
52	8	400 lbs.	4 in.	$0.10
55	7.4	450 lbs.	4 in.	.11
57	5.2	600 lbs.	6 in.	.11
62	7.3	650 lbs.	6½ in.	.12
66	6	700 lbs.	6¾ in.	.12
67	5.2	700 lbs.	7 in.	.12
77	4.6	750 lbs.	7½ in.	.13

ATTACHMENT LINKS FOR CHAIN BELTING.

No. 11-A-23. These Attachment Links are made to fit the sizes of chains as listed below, and must not be ordered, except to match the size we state they will fit. For example, it will be noticed that the A-10 attachment is only made for Nos. 35 and 45 chain, and must not therefore be ordered to be used on any other size.



Chain No. 25	Chain No. 42	Chain No. 34
A 3	A 1	A 1
C 1	C 1	E 1
D 3	K 3	K 1
E 1	K 5	
H 2	K 6	Chain No. 45
K 1	S 1	A 1
K 5		A 3
K 6	Chain No. 55	A 10
M 1	A 1	C 1
S 1	A 2	D 3
	C 1	D 5
Chain No. 35	E 1	E 1
A 1	F 2	K 1
A 2	K 1	K 3
A 10	M 1	K 5
C 1	S 1	M 1
C 2		S 1
K 1	Chain No. 67	
S 1	A 1	
	D 5	
Chain No. 52	E 1	
A 1	F 1	
A 3	F 2	
D 3	H 1	
E 1	K 1	
K 5	S 2	
	Chain No. 75	
Chain No. 66	E 1	
C 1	H 1	
	K 1	
Chain No. 32	R 1	
A 1	D 1	
A 3	E 1	
C 1	K 1	
D 3	K 3	
E 1	K 5	
K 1	K 6	
K 3	M 1	
K 6	S 1	

Chain No. 57	Chain No. 62
A 1	A 1
D 5	A 3
E 1	C 1
F 2	D 5
H 1	K 1
K 1	K 5

Price List.

	Price Each
Attachment Links for Nos. 25, 32, 33 and 34 chain	$0.03
Attachment Links for Nos. 35, 42, 45 and 51 chain	.03½
Attachment Links for Nos. 52, 55, 57 and 62 chain	.04½
Attachment Links for Nos. 66, 67 and 77 chain	.05

No. 42—BORE 1 11-16 INCH AND LESS.

Diam. Inches	Teeth	Price Each	Diam. Inches	Teeth	Price Each
2¾	6	$0.85	9¾	22	$1.35
3¾	8	.95	11½	26	1.45
4¾	11	1.05	12¼	28	1.50
5¼	12	1.10	14	32	1.70
6	14	1.15	15¾	36	1.90
7	16	1.20	18	41	2.10
8	18	1.25	20½	46	2.35
8¾	20	1.30	24	55	2.90

No. 51—BORE 1 15-16 INCH AND LESS.

2¾	7	$0.80	8¾	24	$1.25
3¼	9	.85	9½	26	1.30
4	11	.90	10	27	1.35
4½	12	.95	11	30	1.40
4¾	13	1.00	12½	33	1.55
5¾	15	1.05	14	39	1.70
6	16	1.08	15½	42	1.75
6¾	18	1.10	16½	45	1.90
7¾	20	1.15	18¾	50	2.15

No. 52—BORE 1 15-16 INCH AND LESS.

3	6	$0.85	15¼	32	$2.00
4	8	.90	16¼	34	2.10
4¾	10	1.00	17¼	36	2.20
5¼	11	1.05	18	38	2.60
6¼	13	1.15	22	46	2.75
7¼	15	1.25	23	48	2.85
8¼	17	1.40	23½	49	2.90
9¼	19	1.45	24	50	3.00
10	21	1.55	25	52	3.15
11	23	1.65	26½	55	3.35
12	25	1.70	28¾	60	3.65
13	27	1.80	30½	64	4.00
14⅓	30	1.90			

Nos. 57, 67, 77—BORE 2 7-16 INCH AND LESS.

Diam. Inches	Teeth	Price Each	Diam. Inches	Teeth	Price Each
4	5	$0.95	19¼	27	$3.05
4½	6	1.00	22	30	3.40
5¼	7	1.05	23½	32	3.70
6	8	1.25	25	34	3.90
7½	10	1.75	26½	36	4.20
9	12	1.60	28	38	4.50
10½	14	1.80	30½	41	5.00
11¾	16	1.95	32½	44	5.50
13¼	18	2.10	35¼	48	6.15
14¾	20	2.35	36	49	6.60
16¼	22	2.50	38½	52	6.90
17¾	24	2.70	41¼	56	7.75

No. 62—BORE 2 7-16 INCH AND LESS.

3¾	7	$0.95	12½	23	$2.00
4½	8	1.00	13¾	26	2.25
4¾	9	1.05	14¾	28	2.40
5¾	10	1.10	15¾	30	2.60
5¾	11	1.15	18	34	2.80
6¾	12	1.25	20	34	3.10
7	13	1.35	21½	41	3.30
8	15	1.45	23	43	3.50
8½	16	1.50	25¼	48	4.10
10	19	1.70	30½	58	5.10
11	21	1.85			

No. 66—BORE 2 7-16 INCH AND LESS.

5½	8	$0.95	10½	16	$1.40
7¼	11	1.10	11½	18	1.50
7¾	12	1.15	12¼	19	1.60
8½	13	1.25	16	25	2.00
9	14	1.30			

Elevator Buckets and Conveyors

CAST IRON ENDS FOR CONVEYOR BOXES.

This cast iron end for conveyor trough takes the place of a hanger or bearing. It makes a much more rigid bearing for driving ends than a hanger or outside pillow block, and costs less, when the labor and material for the foundation for outside bearing is considered. The bearing is babbitted and furnished with oil tube, as shown in cut.

	Diameter Conveyor Inches	Diameter Shaft Inches	Price
No. 3-A-72	4	1	$0.82
No. 3-A-73	6	1½	1.00
No. 3-A-74	9	1½	1.50
	12	2	3.00

SUPERIOR WROUGHT IRON BOOT.

No. 3-A-77. The Superior Wrought Iron Boots are stronger and more durable than any other boots in the market. They are made of heavy sheet iron sides and cast iron frames, and they have extra supports or feet that hold the weight of the elevator legs. This is a very essential feature that is found in no other boot. It has side tighteners, a shield to protect bearings from dust, also oil tube for oiling. It is provided with clean-out doors either on side or end, as desired. The pulleys are well balanced and all bearings babbitted.

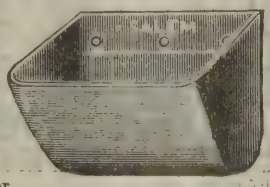
In ordering, give length and projection of buckets. Made with either pulleys or sprocket wheels.

	Width Bucket Inches	Width Belt Inches	Pulley	Price
Style No. 1	4½	5	10x 6	$11.50
Style No. 2	5	5½	10x 6	12.00
Style No. 3	6	7	12x 8	12.50
Style No. 4	7	8	14x 9	13.75
Style No. 5	8	9	14x10	15.50
Style No. 6	9	10	16x11	18.00
Style No. 7	10	11	16x12	19.75
Style No. 8	11	12	16x13	21.50
Style No. 9	12	13	18x14	23.75
Style No. 10	14	15	18x16	26.00

SALEM ELEVATOR BUCKETS.

Brand New.

No. 3-A-63.



Capacity Bushels per hour 200 ft. per minute 12 inches apart	Width Inches	Projection Inches	Price Each
21	2	2	$0.01½
40	2½	2½	.02
59	3	2½	.02½
69	3¼	2½	.02¾
87	3	3	.03½
102	3½	3	.04
116	4	3	.04½
131	4½	3	.04¾
159	4	3½	.04¾
179	4½	3½	.05
199	5	3½	.05½
229	5	4	.07
251	5½	4	.07½
274	6	4	.08
500	7	4½	.11½
670	8	5	.16
754	9	5	.17
973	10	5½	.21
1200	10	6	.24
1590	10	7	.28
1342	11	6	.25
1749	11	7	.29
1464	12	6	.26
1908	12	7	.31
1708	14	6	.28
2226	14	7	.33
1952	16	6	.29
2544	16	7	.36
2862	18	7	.39
2400	20	6	.35
3180	20	7	.41

STEEL GRAIN BUCKETS.

No. 3-A-64.

Belt	Across Projection	Price Each
5	4	$0.06
5½	4	.06½
6	4	.07½
7	4½	.08
8	5	.10½
9	5	.11
10	5½	.12
11	6	.13
12	6	.14
14	6	.16½

TIN MILL BUCKETS.

No. 3-A-65. As per list below, the smaller sizes are made of Tin, and the larger of Smooth Refined Steel; the ends are double seamed to the body by special machinery, which enables us to produce a bucket which for strength and smoothness of finish has no superior.

They are guarded with band iron firmly riveted to the body, making the bucket light but firm; the shape is especially adapted to discharge readily.

Width On Belt	Projection	Price Each	Width On Belt	Projection	Price Each
2	2	$0.02½	4	3½	$0.05
2½	2½	.03	4½	3½	.05½
3	3	.03¼	5	4	.06
3½	3	.03¾	5½	4	.06½
4	3	.04½	6	4	.07

ELEVATOR BUCKET BOLTS.

Corrugated and Slotted Head.

Slotted Head — Corrugated Head

No. 3-A-66.		No. 3-A-67
½x½ inch.	Price per 100	$0.35
¼ x½ inch.	Price per 100	.35
¾x½ inch.	Price per 100	.35
3 x½ inch.	Price per 100	.42
1 x½ inch.	Price per 100	.42

SPIRAL STEEL CONVEYOR.

Price includes steel curved lining, one hanger and one coupling with each standard length.

	Outside Diam. in Inches	Standard Length Feet.	Inside Diam. of Hollow Shaft Inches	Regular Diam. of Projections Inches	Maximum Capacity per Hour Bushels	Recommended Revolutions per Minute	Price per Ft.
No. 3-A-68	4	8	1	1	100	220	$0.40
No. 3-A-69	6	10	1¼	1½	350	200	.67
No. 3-A-70	9	10	1¾	1½	1100	175	.80
No. 3-A-71	12	12	2	2	2000	150	1.12

Style No. 1 Style No. 2 Style No. 3

FLEXIBLE GRAIN SPOUTS FOR TRIMMING CARS.

These Spouts are used to load cars without shoveling, and will work where there is little fall from bin. No. 1 has swivel joint. Nos. 2 and 3 have chain connections. Will turn any angle. No. 1 Spout sent unless otherwise ordered.

Each Section adds 8½ inches to the length. Special sizes made to order, any size, length and any size hopper. In ordering give size of wooden spout to which you wish the spout fitted.

No. 3-A-75.

Diameter Inches.	Length Ft.	Size of Hopper Inches	Gauge of Steel. No. 18	No. 16	No. 14	No. 12
6	5	10x10	$ 4.65	$ 5.50	$ 6.60	$ 9.35
8	6	12x12	5.80	6.60	8.80	11.55
10	6	14x14	6.60	8.25	9.90	12.65
12	8	16x16	10.25	11.00	13.75	16.50

EXTRA SECTIONS.

No. 3-A-76.

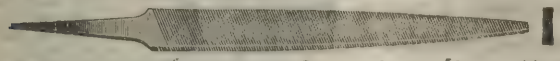
Diameter Inches	Length Inches	No. 18	No. 16	No. 14	No. 12
6	8½	$0.39	$0.55	$0.72	$0.75
8	8½	.47	.63	.75	.83
10	8½	.55	.72	.83	.97
12	8½	.69	.82	.94	1.10

Superior Machine and Hand Cut Files and Rasps

MILL FILE, BASTARD CUT, SQUARE EDGE.
No. 4-A-570.

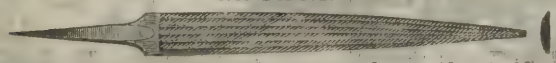
Length, inches	4	6	8	10	12	14	16
Price, each	$0.05	.06	.08	.10	.12	.18	.25
Price, per dozen	$0.55	.68	.86	1.10	1.40	2.00	2.75

FLAT BASTARD FILES.
No. 4-A-571.



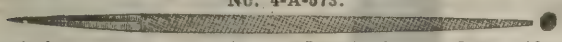
Length, in.	4	5	6	8	10	12	14	16
Price, each	$0.07	.08	.09	.10	.12	.17	.23	.34
Per dozen	$0.70	.75	.81	1.00	1.40	1.90	2.65	3.50

HALF ROUND BASTARD FILES.
No. 4-A-572.



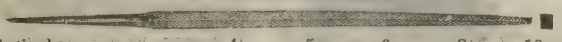
Length, inches	6	8	10	12	14
Price, each	$0.11	.13	.16	.20	.26
Price, per dozen	$1.20	1.45	1.75	2.25	3.00

ROUND BASTARD FILES.
No. 4-A-573.



Length, inches	4	5	6	8	10	12
Price, each	$0.06	.07	.08	.09	.10	.14
Price, per dozen	$0.56	.62	.66	.81	1.09	1.45

SQUARE BASTARD FILES.
No. 4-A-574.

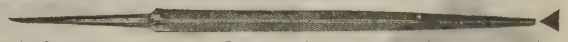


Length, inches	4	5	6	8	10	12
Price, each	$0.07	.08	.09	.10	.14	.18
Price, per dozen	$0.72	.78	.85	1.02	1.40	2.00

TAPER SAW FILES.
Single Cut.
No. 4-A-574.

Length, inches	3	4	5	6	7	8
Price, each	$0.04	.05	.06	.07	.08	.09
Price, per dozen	$0.40	.43	.50	.68	.85	1.05

SLIM TAPER SAW FILES.
Single Cut.
No. 4-A-575.



Length, inches	3	4	5	6	7	8
Price, each	$0.04	.05	.06	.07	.08	.09
Price, per dozen	$0.40	.43	.50	.68	.85	1.05

CANT SAW FILE.
No. 4-A-576.

Length, inches	5	6	8	10
Price, each	$0.09	.10	.13	.18
Price, per dozen	$1.00	1.10	1.30	1.90

AUGER BIT FILE.

No. 4-A-577. Suitable for filing any size auger bit without filing the screw or lip. The use of these files will save your auger bits.
Price, each $0.08
Price, per dozen ..... .90

HALF-ROUND WOOD RASP.
No. 4-A-578.

Length, inches	8	10	12	14
Price, each	$0.20	.27	.35	.47
Price, per dozen	$2.25	3.00	4.10	5.35

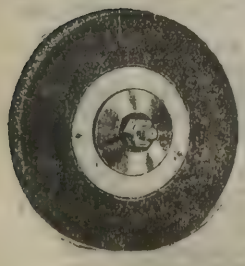
FILE AND TOOL HOLDER.

No. 4-A-579. Will hold files of all sizes and shapes, from the smallest up to a 14-inch mill file. It will also hold twist drills, gimlets, screw drivers and all tools with shanks less than ⅜ inch, square, round or flat.
Price, each $0.06

WOOD FILE HANDLES WITH METAL FERRULE.

No. 4-A-580. Furnished in three sizes: large, medium or small. To be used with files of various sizes.
Price, per dozen $0.12

Premier Corundum Wheels.



We guarantee this to be the best Grinding Wheel on the market, and suitable for any kind of work. Every wheel is fully warranted to be satisfactory. There is no question should you try this wheel you will find it entirely satisfactory and on future requirements will use no other.

In ordering, be sure and give the diameter, thickness, size hole, shape of face and speed at which the wheel will run. Also state whether it is for wet or dry grinding.

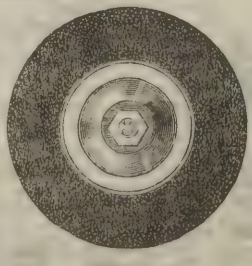
No. 4-A-581. Flat Face.

No. 4-A-582. Round Face.

Thickness, inches.

Diam. Inches	⅛	3/16	¼	⅜	½	⅝	¾	1	1¼	1½	2
2	$0.09	$0.11	$0.13	$0.14	$0.14	$0.15	$0.16	$0.18	$0.19	$0.20	
3	.13	.16	.20	.23	.24	.28	.31	.35	.39	.43	
4	.19	.24	.28	.31	.34	.40	.46	.53	.59	.65	
5	.25	.30	.35	.40	.45	.55	.65	.75	.85	.95	
6	.35	.40	.44	.53	.60	.76	.93	1.09	1.25	1.41	
7	.46	.50	.54	.65	.75	.96	1.18	1.39	1.60	1.81	
8	.52	.59	.65	.78	.90	1.15	1.40	1.65	1.90	2.15	
10	.75	.84	.91	1.09	1.25	1.59	1.93	2.26	2.60	2.94	
12	.90	.95	1.00	1.25	1.50	1.85	2.25	2.68	3.19	3.60	
14	1.01	1.29	1.56	1.84	2.11	2.65	3.21	3.76	4.31	4.86	
16					2.71	3.43	4.14	4.85	5.57	6.25	

Special Saw Gummer Wheels.

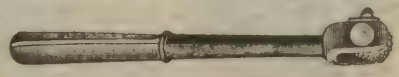


These wheels are made especially for saw gumming purposes, and are guaranteed not to burn of harden the steel. They are thoroughly water proof, and are made with round face only.

In ordering, be sure and state size of hole wanted.

Diam. Inches	Thickness, Inches ¼	⅜	½	⅝
6	$0.57	$0.65	$0.70	$0.93
8	.85	.96	1.70	1.40
10	1.20	1.30	1.43	1.95
12	1.41	1.50	1.55	2.35

HUNTINGTON PATTERN EMERY WHEEL DRESSER.



Used for the purpose of truing, shaping and removing glaze from emery wheels while running at full speed. This tool will entirely remove glaze, causing the emery wheel to grind properly.

No. 4-A-584. Price complete with two sets of Cutters $0.28
No. 4-A-585. Extra Cutters, price per dozen ..... .60
No. 4-A-586. Extra Cutters, price per set ..... .06

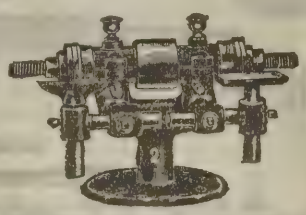
BENCH EMERY GRINDERS

Two Wheel Emery Grinder, $2.10

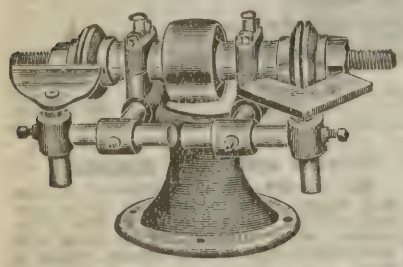
No. 4-A-587. This machine will run two wheels 6 inch diameter, 1 inch thick. Has ⅜ inch steel spindle, ½ inch between flanges, pulley 2 inch diameter, 1¾ inch face. Weight 9 lbs.
Price, not including stones.....**$2.10**

Two Wheel Emery Grinder, $4.50

No. 4-A-588. This machine will run two wheels 10-inch diameter, 1½ inch thick. Has a steel spindle ⅞ inch in bearings, ¾ inch between flanges. The bearings are 2 inches long, made with caps, and are adjustable. Mounted with brass oil cups, pulley 2¼ inch diameter, 1¾ inch face. Weight of Grinder complete 20 lbs.
Price, not including stones.....**$4.50**



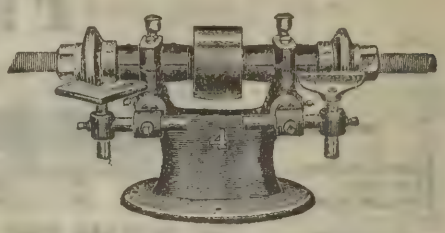
Two Wheel Emery Grinder, $6.50



No. 4-A-589. Emery Grinder. Will run two wheels 12-inch diameter, 2 inches thick. Has a steel spindle 18 inches long and 1⅛ inch diameter in bearings, 1 inch between flanges. The bearings are 3 inches long, and same style as engine-lathe bearings, mounted with brass oil cups. Pulley 2½ inch diameter, 2¼ inch face. Weight 40 lbs.
Price, not including stones.....**$6.50**

Two Wheel Emery Grinder, $8.75

No. 4-A-590. Emery Grinder. Will run two wheels 16-inch diameter, 2½ inches thick. Has steel spindle 1 1/16 inch diameter in bearings, 1½ inch between flanges. The bearings are 4 inches long and same style as engine-lathe bearings. Mounted with brass oil cups, pulley 4½ inch diameter, 2¾ inch face. Weight 65 lbs.
Price, not including stones.....**$8.75**



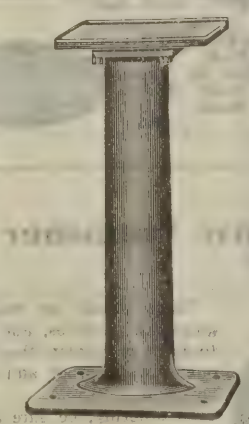
Floor Emery Grinding Machine, Especially adapted for Grinding Plows.

Price Complete $14.25

This is a very strong and substantial machine and is especially adapted for grinding plows and general shop requirements. The illustration shows the grinder fitted with a Disc Grinding Attachment on right-hand end. We furnish this Grinder both with and without the Disc Grinding Attachment.
Height from floor to arbor, 30 in.
Diameter of base, 18 in.
Length of arbor, 36 in.
Diameter of arbor between collars, 1½ in.
Diameter of collars, 3¾ in.
Bearings, 8x1½ in.
Pulley, 4x4½ in.
Distance between wheels, 24 in.
Weight, 190 lbs.
Will carry wheels 14x3 in.
Use size No. 4 Countershaft in connection with this Grinder.

No. 4-A-591. Price, complete, with two rests, only.....**$14.25**
No. 4-A-592. Disc Grinding Attachment, extra.....**$.00**

Emery Stand Columns, $3.50 and up.



These columns are designed to fit the Bench Emery Grinders which we offer. In many instances it is not convenient to mount the grinder on a bench. The columns have a rib around the top to keep the tools from falling off. It will be found much more convenient to mount Grinders on these columns.

No. 4-A-593.

Size of table	6½x 8	inches
Size of base	9 x12	inches
Height	32	inches
Weight about	32	lbs.

Price, each.....**$3.50**

No. 4-A-594.

Size of table	9 x11	inches
Size of base	9 x12	inches
Height	32	inches
Weight about	37	lbs.

Price, each.....**$3.75**

No. 4-A-595.

Size of table	11 x13	inches
Size of base	12 x16	inches
Height	32	inches
Weight, about	75	lbs.

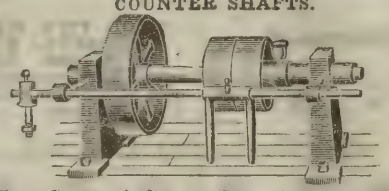
Price, each.....**$5.50**

No. 4-A-596.

Size of table	11x15	inches
Size of base	14x18	inches
Height	28	inches
Weight about	100	lbs.

Price, each.....**$7.00**

COUNTER SHAFTS.



These Countershafts are of superior construction and guaranteed to be in perfect alignment. They are furnished complete with drive pulley, tight and loose pulleys, Langer's shifting rod and belt shifter.

No. 4-A-597. Size No. 1.

Size of Drive Pulley	8 x 2	inches
Size of Tight and Loose Pulleys	3¾x 1½	inches
Length of Shaft	17	inches
Drop of Hangers	5	inches
Diameter of Shaft	⅞	inches
Weight complete	24	lbs.

Price.....**$2.50**
Will fit our No. 1 Bench Emery Grinder.

No. 4-A-598. Size No. 2.

Size of Drive Pulley	9x2	inches
Size of Tight and Loose Pulleys	5x2	inches
Drop of Hanger	6½	inches
Diameter of Shaft	1	inch
Weight complete	38	lbs.

Price.....**$3.75**
Will fit our No. 2 Bench Emery Grinder.

No. 4-A-599. Size No. 3.

Size of Drive Pulley	10x 3½	inches
Size of Tight and Loose Pulley	5x 3	inches
Drop of Hanger	6½	inches
Length of Shaft	24	inches
Diameter of Shaft	1	inch
Weight, complete	44	lbs.

Price.....**$4.50**
Will fit our No. 3 Bench Emery Grinders.

No. 4-A-600. Size No. 4.

Size of Drive Pulley	12x 4	inches
Size of Tight and Loose Pulley	6x 3½	inches
Drop of Hanger	8	inches
Length of Shaft	26	inches
Diameter of Shaft	1⅛	inch
Weight complete	58	lbs.

Price.....**$5.00**
Will fit our No. 4 Bench Emery Grinder.

No. 4-A-601.

Size No. 5.

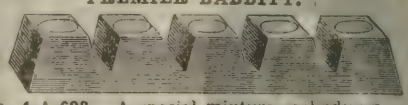
Size of Drive Pulleys	12x 4	inches
Size of Tight and Loose Pulleys	6x 4	inches
Drop of Hangers	9	inches
Length of Shaft	30	inches
Diameter of Shaft	1⅛	inch
Weight complete	75	lbs.

Price.....**$7.00**

BABBITT METAL.

No. 4-A-602. We offer babbitt metal of several grades. Intended to be used in bearings of various kinds.
The different grades of babbitt that we offer we guarantee to be of the very best composition for the purpose for which they are intended. The metals used are guaranteed to give firmness and have lasting qualities.

PREMIER BABBITT.



No. 4-A-603. A special mixture embodying anti-friction ingredients, used on high speed engines or in machines where speed and perfect bearings are required. Price, per lb.**$0.16**

No. 1 BABBITT METAL.

No. 4-A-604. A fine composition and has lasting qualities. Intended for general purposes and can be used on machinery running at a medium speed. Price, per lb.....**$0.11**

No. 3 BABBITT METAL.

No. 4-A-605. Used for bearings of all kinds of low speed machinery. Price, per lb....**$0.07**

SOLDER.

No. 4-A-606. The very best grade of Plumbers' solder. Comes in bars weighing about 1½ lbs. Price, per lb.....**$0.19**
No. 4-A-607. Tinners' solder. The very best half and half. Comes in bars of about 1½ lbs. Price, per lb.....**$0.20**

Premier Circular Saws

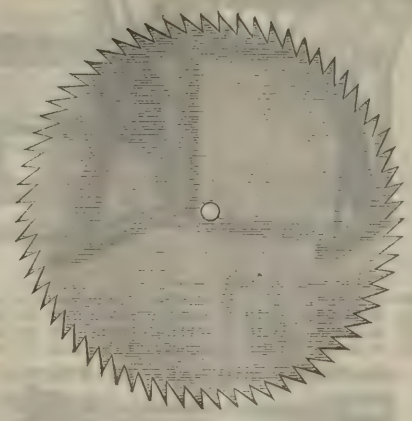
No. 4-A-523.

Solid Tooth Rip Saw

Our Premier Saws are made of the very best grade of Jessop Saw Steel and are properly oil tempered. Will hold the temper and tension longer than any other saw on the market.

The saws are absolutely true to gauge, perfectly balanced, and by our special process of grinding have a perfectly smooth surface, which adds much to the cutting qualities.

Every blade is placed on a mandrel and carefully inspected. If it varies a thousandth part of an inch it is re-adjusted until it is absolutely true. This not alone applies to large saws but to the smaller ones as well.



No. 4-A-524.

Solid Tooth Cross Cut Saw

Terms of Warranty—Each saw is warranted perfectly true, or as true as it is possible to make it, free from flaws and seams. If found to be defective in any of these particulars it may be returned to us and if on examination, we are satisfied that the saw is at fault, all necessarily repairs will be made free of charge, or a new saw given in exchange, providing it is returned within 30 days after delivery.

The practice of using a cold chisel or punch for re-toothing a saw is almost certain to distort or crack the plate, and corners filed square in the gullet of the tooth will frequently produce the same result, particularly in frosty weather. Our warranty does not cover saws breaking from either of these causes.

We are in position to make shipment on saws up to and including 40 inches in diameter at once. All saws larger than 40 inches are made to order.

In ordering saws, observe the following:

1. State diameter of Saw.
2. Whether Rip or Cut-off Saw is wanted.
3. Size of hole in Saw.
4. Whether Saw is for right of left hand mill.
5. Number of teeth preferred.
6. Speed of Saw.

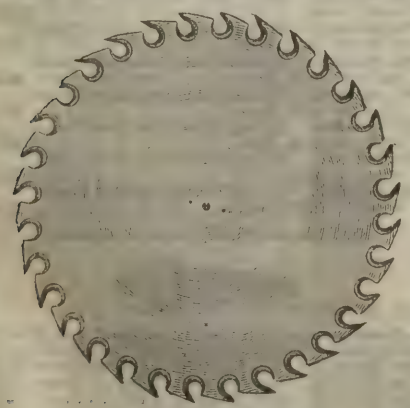
This information will enable us to fill your order immediately, and furnish a saw that is especially adapted to your work.

In describing saws we give the standard gauge and size of arbor hole. We can, however, vary from this if desired. On all saws larger than 40 inches we will bevel one gauge without extra charge. That is, make the saw one gauge thinner at the rim than at the hole.

Prices quoted are for saws set and sharpened, ready for use.

Price List Premier Circular Saws

Diameter	Gauge	Size of Hole Inches	Price Each
4	19	⅝	$0.45
5	19	⅝	.52
6	18	⅝	.65
7	18	⅝	.74
8	18	⅝	.95
9	17	⅝	1.10
10	16	1	1.35
11	16	1	1.52
12	15	1	1.75
14	15	1¼	2.10
16	14	1¼	2.50
18	13	1¼	2.95
20	13	1 5-16	3.60
22	12	1 5-16	4.35
24	11	1⅜	5.15
26	11	1⅜	6.00
28	10	1½	6.75
30	10	1½	7.40
32	10	1⅝	8.60
34	9	1⅝	9.75
36	9	1⅝	10.95
38	9	1⅝	12.00
40	9	2	14.10
42	8	2	16.35
44	8	2	$19.40
46	8	2	23.00
48	8	2	27.00
50	7	2	30.00
52	7	2	35.00
54	7	2	39.00
56	7	2	45.00
58	7	2	50.00
60	6	2	55.75
62	6	2	64.00
64	6	2	70.00
66	6	2	80.00



No. 4-A-525.

Premier Inserted Tooth Circular Saws

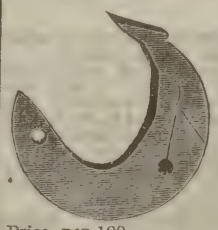
No. 4-A-525. Manufactured from the same high grade steel as our solid tooth saws and sold under the same guarantee.

We furnish these saws with the number of teeth as described below. Can furnish them made up special with additional teeth if desired at an extra cost of 40 cents for each extra tooth. The bits used in these saws are made of extra fine steel and given a fine temper. A full set of bits will cut on an average of 75,000 feet of lumber, depending on the care the operator gives them.

We will furnish these saws one gauge lighter or heavier if desired without extra charge.

Inches Diam.	Gauge	Size of Hole Inches	No. of Teeth	Price Each
30	9	1¼	16	$ 20.30
32	9	1¼	16	22.25
34	9	1¼	24	24.20
36	8	1¼	24	26.50
38	8	1¼	26	28.50
40	8	2	26	31.00
42	8	2	28	33.50
44	7	2	28	36.25
46	7	2	30	40.00
48	7	2	30	44.00
50	7	2	32	$ 49.50
52	6	2	32	57.75
54	6	2	34	64.35
56	6	2	34	74.00
58	6	2	36	81.75
60	5	2	36	89.50
62	5	2	38	97.50
64	5	2	38	107.00
66	5	2	40	117.00

POINTS AND HOLDERS FOR PREMIER INSERTED TOOTH CIRCULAR SAWS.



We wish to call your attention to the shoulder supporting the tooth, which does not depend on the rim for support, as other inserted tooth saws do. This style tooth is adapted for high speed saw mill and is the only tooth made that will run on an 8 or 12 inch feed.

No. 4-A-526. Extra fine steel bits only.
Price, each..... $ 0.03
Price, per 100..... 2.65

No. 4-A-527. Drop Forge, extra holder for points.
Price, each..... $0.27 Price, per 100.... $26.00

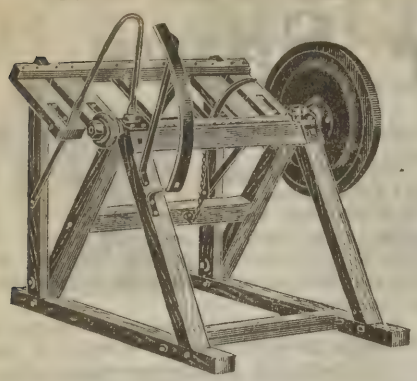
No. 4-A-528. Premier Inserted Tooth Wrenches.
Price, each..... $0.50

PERFECTION CIRCULAR CORD WOOD SAWS.

No. 4-A-529. Made of special grade crucible steel and the best cord wood saw manufactured. Saws are furnished filed, set and sharpened and ready for use. In ordering, be sure and specify size of arbor hole.

Diam. Inches	Gauge	Price Each	Diam. Inches	Gauge	Price Each
20	13	$3.00	26	11	$5.00
22	12	3.50	28	10	5.66
24	11	4.35	30	10	6.33

TILTING TABLE SAW FRAME.



This is the same frame as we use in connection with our Combination Wood Saw and Pole Saw Frame with the exception that it has not the extension. As it shows in the illustration, it is suitable for sawing cord wood. The arbors are of steel. The bearings long and well babbitted. The machine is well finished. Has a Tilting Table so pivoted that it balances perfectly and is therefore very popular with the sawyers.

Right hand frame furnished unless otherwise specified. Prices quoted are F. O. B. cars factory near Chicago. Weight 275 lbs. Shipped Knocked Down.

No. 4-A-497. Complete without Saw.....**$11.75**
No. 4-A-498. Tilting Table Saw Frame, with 20 inch Saw **14.75**
No. 4-A-499. Tilting Table Saw Frame, with 22 inch Saw..... **15.50**
No. 4-A-500. Tilting Table Saw Frame, with 24 inch Saw..... **16.25**
No. 4-A-501. Tilting Table Saw Frame, with 26 inch Saw..... **17.00**
No. 4-A-502. Tilting Table Saw Frame, with 28 inch Saw..... **17.50**
No. 4-A-503. Tilting Table Saw Frame, with 30 inch Saw..... **18.25**

SLIDING TABLE WOOD SAW FRAMES.

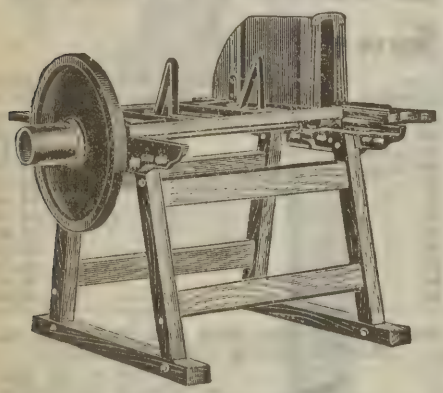


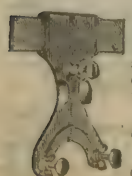
Table is mounted on roller bearings which run on the table guides, and is very easy to operate.

The frame is made of hard wood, well braced and bolted, and is nicely finished. A very substantial and strong frame throughout. The Mandrel is 1¼ inch diameter, turned to fit 1⅛ inch hole in saw. The pulley is 5 inch diameter and has 6 inch face. Weight about 350 lbs.

Right hand frame furnished unless otherwise specified. Prices quoted are F. O. B. cars factory, near Chicago. Shipped Knocked Down.

No. 4-A-504. Complete, without Saw.....**$13.50**
No. 4-A-505. Sliding Table Saw Frame, with 20 inch Saw..... **16.60**
No. 4-A-506. Sliding Table Saw Frame, with 22 inch Saw..... **17.20**
No. 4-A-507. Sliding Table Saw Frame, with 24 inch Saw..... **17.90**
No. 4-A-508. Sliding Table Saw Frame, with 26 inch Saw..... **18.60**
No. 4-A-509. Sliding Table Saw Frame, with 28 inch Saw..... **19.50**
No. 4-A-510. Sliding Table Saw Frame, with 30 inch Saw..... **20.30**

SIDE FILE.

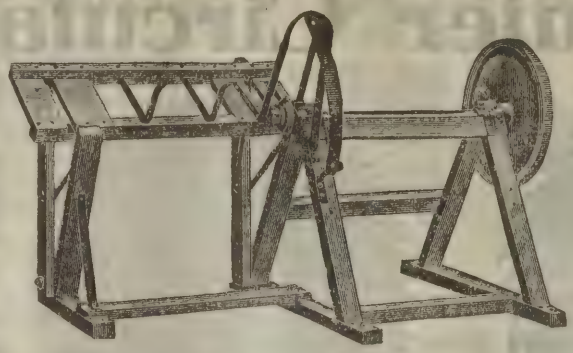


Used for finishing the sides of teeth after they have been set, which will cause the saw to run much longer without sharpening.

No. 4-A-532. Price each with file, complete **$0.75**

No. 4-A-533. Extra files of first class quality. Price each..... **$0.30**

COMBINATION WOOD SAW AND POLE SAW FRAME



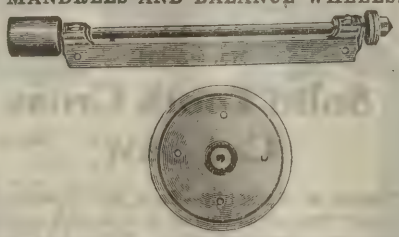
The frame is made of heavy, hardwood, extra well braced, and bolted and is arranged for sawing either long poles or regular cordwood.

The saw guard is adjustable for saws from 20 to 30 inches in diameter. The Mandrel is 1¼ inch diameter and turned down to fit 1⅛ inch hole in saw, and is 4 feet 1 inch long. Balance wheel weighs 95 lbs. Pulleys 5 inch diameter, 6 inch face. Weight complete with Extension Table about 300 lbs.

Right hand frame furnished unless otherwise specified. Prices quoted are F. O. B. cars factory near Chicago. Shipped Knocked Down.

No. 4-A-490. Price, complete with Extension..... **$12.25**
No. 4-A-491. With Extension Table and 20 inch saw..... **15.45**
No. 4-A-492. With Extension Table and 20 inch Saw **16.20**
No. 4-A-493. With Extension Table and 24 inch Saw..... **17.00**
No. 4-A-494. With Extension Table and 26 inch Saw..... **17.75**
No. 4-A-495. With Extension Table and 28 inch Saw..... **18.60**
No. 4-A-496. With Extension Table and 30 inch Saw..... **19.40**

MANDRELS AND BALANCE WHEELS.

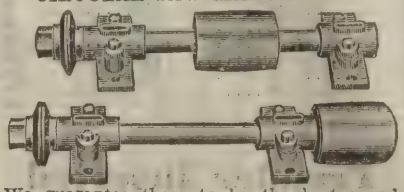


We offer for the convenience of those who wish to build their own saw frames the following parts:

No. 4-A-518. Mandrel only 1¼ inch diameter, 4 ft. 1 in. long, turned down to fit hole in saw 1⅛ in. Weight about 35 lbs. Price..**$2.65**
No. 4-A-519. Babbitted connected boxes. Weight 35 lbs. Price..... **1.60**
No. 4-A-520. Balance wheel. Weight 95 lbs. Price..... **2.75**
No. 4-A-521. Belt Pulley 5 in. diameter, 6 in. face, weight 11 lbs. Price..... **.88**
No. 4-A-522. For Mandrel shaft complete balance wheel, boxes, belt pulley. Weight 172 lbs. Price..... **7.75**

Note—When ordering pulley and balance wheel separately, they will be furnished to fit 1¼ inch shaft unless otherwise stated.

CIRCULAR SAW MANDRELS.



We guarantee these to be the best mandrels constructed. Bearings are extra long and made of special chilled iron and are babbitted with frictionless metal, insuring easy running.

The shaft is cold rolled steel. Thread is lathe cut and the flanges turned up and are absolutely true.

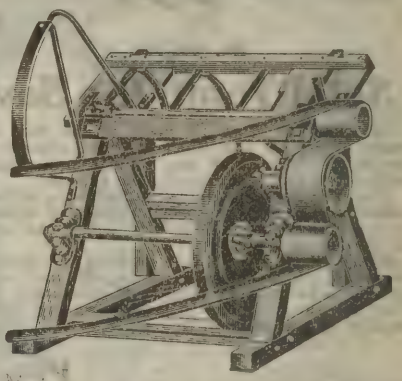
No. 4-A-530. Pulley in the center.
No. 4-A-531. Pulley on right hand side, with left hand thread.

Size	Diam. Face of Pulley	Length Pulley	Diam. Shaft	Hole in Shaft	Saw	Price Each
1	2½	3½	16½	1 1-16	1	$ 3.50
2	3	4	19	1 3-16	1⅛	3.75
3	3½	4½	21½	1 5-16	1¼	4.25
4	4	5	24	1 7-16	1 5-16	4.75
5	4½	5½	26	1 7-16	1 5-16	5.25
6	5	6	28	1 7-16	1⅛	5.65
7	5½	6½	30½	1 7-16	1⅛	6.40
8	6	7	32½	1 9-16	1⅛	7.95
9	7	8	37	1 11-16	1⅛	9.35
10	8	8	41	1 13-16	1⅛	10.75

PREMIER SAW SHARPENER.

No. 4-A-539. Hand sharpener and gummer. This machine will sharpen saws from 14 to 72 inches diameter. It is well built, strong and heavy. The tight pulley on countershaft is 5 inch diameter, 2½ inch face, speed of countershaft 1200 revolutions per minute, arbor ⅝ inch in boxes and ¾ inch between collars. Will carry 14 inch wheels under guard. Shipping weight 400 lbs. Price, Saw Sharpener complete, without Emery Wheel **$30.00**

TILTING TABLE POLE SAW FRAMES.



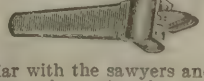
The frames are constructed of hard wood, well braced and bolted, and are in every sense substantially and strongly built. The wheel is on a separate shaft, entirely out of the way so that long poles may be sawed as well as cord wood. The power is fed direct to saw. The belt passes around an idler pulley to the shaft, giving speed and well balanced motion to the saw.

The Mandrel is 1¼ inch diameter and turned down to fit saw with 1⅛ inch hole. The pulley is 5 inch diameter 6 inch face. Balance wheel weighs 95 lbs. Weight complete 390 lbs. Takes saw up to 30 inches.

Right hand frame furnished unless otherwise specified. Prices quoted are F. O. B. cars factory, near Chicago. Shipped Knocked Down.

No. 4-A-511. Pole Saw Frame, without Saw **$14.75**
No. 4-A-512. Tilting Table Pole Saw Frame with 20 inch Saw..... **17.75**
No. 4-A-513. Tilting Table Pole Saw Frame with 22 inch Saw..... **18.25**
No. 4-A-514. Tilting Table Pole Saw Frame with 24 inch Saw..... **19.10**
No. 4-A-515. Tilting Table Pole Saw Frame with 26 inch Saw..... **19.75**
No. 4-A-516. Tilting Table Pole Saw Frame with 28 inch Saw..... **20.50**
No. 4-A-517. Tilting Table Pole Saw Frame with 30 inch Saw..... **21.00**

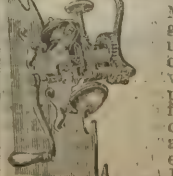
MITER DUPLEX SAW SWEDGES.



Very popular with the sawyers and will give the teeth proper spread, causing the saw to cut easily.

No. 4-A-534. Size No. 0 for small thin saws.**$2.50**
No. 4-A-535. Size No. 1 for 10 to 14 gauge. **3.20**
No. 4-A-536. Size No. 2 for 8 to 12 gauge... **3.85**
No. 4-A-537. Size No. 3 for 5 to 10 gauge... **4.50**

MIXTER'S CHAMPION SAW GUMMER.

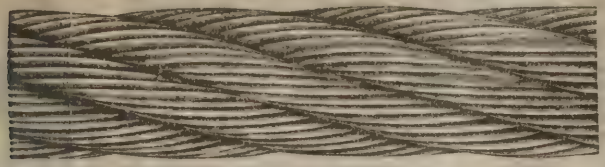


No. 4-A-538. For circular saws. Made of the best material and guaranteed fully in every particular. It is adjustable to various kinds and sizes of saws and will cut tooth at any angle. Has positive automatic teeth and is furnished complete with three cutters. One each. Size ¾, 1 and 1 inch. One Cutter, Grinder and Wrench.

Price, complete **$15.00**

STEEL CABLE AND ROPE.

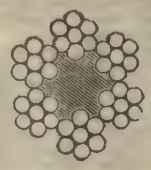
BRAND NEW CRUCIBLE STEEL WIRE ROPE.



No. 9-A-3. Six strands, 19 wires to the strand, laid around a hemp center. This rope is particularly adapted to service in mines, for logging, on elevators, derricks, hay presses, and hoists of all kinds.

Diam. Inches	Weight per ft. in lbs.	Approx. breaking strain in tons of 2,000 lbs.	Price per ft.	Diam. Inches	Weight per ft. in lbs.	Approx. breaking strain in tons of 2,000 lbs.	Price per ft.
¼	0.10	2.4	$0.04½	¾	0.89	19.4	$0.09
⅜	0.22	5.	.04½	⅞	1.20	26.	.11½
½	0.39	8.8	.05½	1	1.58	34.	.15
⅝	0.62	13.6	.07	1¼	2.45	42.	.19

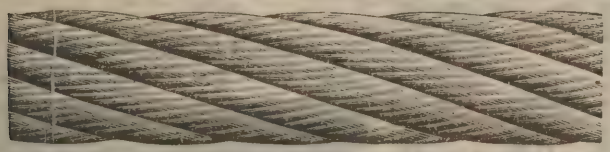
SWEDISH STEEL WIRE ROPE.
Brand New.

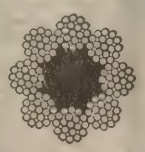


No. 9-A-4. Composed of six strands, hemp center, each having 7 wires. This rope is used principally for transmission of power over large sheaves or drums. This rope is not flexible enough to be used over small sheaves or drums. Note minimum diameter of drum or sheave in table below.

Diam. Inches	Weight per ft. in lbs.	Approx. breaking strain in tons of 2000 lbs.	Minimum Diam. of drum or sheave	Price per ft.
¼	0.22	2.4	2½	$0.02½
½	0.39	4.2	3½	.03½
⅝	0.62	6.6	4½	.05½
¾	0.89	9.3	6	.07½
⅞	1.20	12.	7	.09½
1	1.58	16.	8	.12½

EXTRA FLEXIBLE WIRE ROPE.



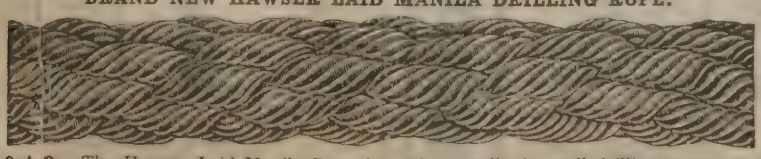


No. 9-A-6. Brand new. Composed of 8 strands and a hemp center, each strand having 19 wires. This rope has two more strands and smaller wires than the regular 6 strand rope, and is especially adapted for running over comparatively small sheaves on derricks, coal handling machinery, cargo hoisting, pile drivers, logging purposes and transmission of power.

On account of the somewhat larger hemp center, the strength is less than that of the regular 6 strand rope, but under many conditions where extreme pliability is required, this extra flexible rope, owing to its ability to withstand severe bending, retains its strength longer than the stiffer 6 strand rope.

Diam. Inches	Weight per ft. in lbs.	Approx. breaking strain in tons of 2000 lbs.	Minimum diam. of drum or Sheave in inches	Price per ft.
¼	0.66	1.6	4	$0.05
⅜	0.18	3.3	6	.05½
½	0.31	6.6	6	.06
⅝	0.53	11.6	8	.08
¾	0.89	16.5	14	.10
⅞	1.05	21.	14	.13
1	1.32	27.	18	.17

BRAND NEW HAWSER LAID MANILA DRILLING ROPE.



No. 9-A-2. The Hawser Laid Manila Rope is used generally for well drilling purposes, and it is very necessary that rope used for this purpose be well made and of the very best quality, pure, long fibre manila. We offer this rope as the very best quality manufactured. It is made of the best grade of manila hemp. Nothing but the best fibre is used. It is laid up by experienced rope makers in a compound that lubricates and protects it from water and weather.

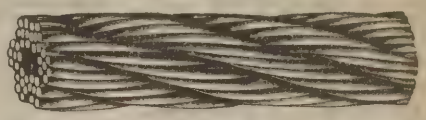
Size Inches	Price per ft.	Size Inches	Price per ft.	Size Inches	Price per ft.
¾	$0.03	1¼	$0.06½	1¾	$0.09
1	.04	1½	.08	1½	.10
1	.05½				

GALVANIZED STEEL WIRE STRAND.
Brand New.

No. 9-A-5. This strand is composed of 7 wires, twisted into a single strand. Is used for guys on smoke stacks, telegraph and telephone poles and many other purposes.

Diam. Inches	Approx. Strength in lbs.	Weight per ft.	Price per 100 ft.
¼	2300	1.25	$0.85
⅜	5000	3.	1.25
½	8500	5.	2.00

GALVANIZED IRON WIRE ROPE.
Brand New.

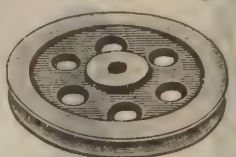


No. 9-A-7. For derrick guys, etc. Not suitable to run over drums or sheaves.

Composed of 6 strands and hemp center, 7 wires to the strand.

Diam. Inches	Weight per Ft.	Approx. Breaking Strain in tons of 2,000 lbs.	Price per Ft.
¼	0.20	1.8	$0.02½
⅜	0.36	3.2	.03½
½	0.64	5.8	.04½
⅝	0.81	7.3	.05½
¾	1.21	11.	.07½
1	1.44	13.	.08½

IRON SHEAVES FOR WIRE ROPE.
Deep Grooves, Common Iron Bushed, Brand New.



No. 11-A-25. These sheaves as priced below are to run loose on the shaft. We cannot furnish them bored for larger sized shaft than specified, nor can they be fitted with set screws or key seated.

Diam. Sheave Inches	Length Through Hub Inches	Size of Hole for Shaft Inches	For Diam. Wire Rope Inches	Price Each
4	¾	½	¼	$0.27
6	¾	½	¼	.42
6	1	½	½	.45
8	1	½	½	.75
8	1	⅝	½	.90
10	1	⅝	½	1.05
10	1½	⅝	½	1.26
12	1	1	½	1.74
12	1½	1	⅝	1.90
14	1½	1	½	2.10
14	1½	1½	⅝	2.25
14	1½	1	¾	2.55
16	1½	1½	¾	2.35
18	1½	1½	¾	4.00
18	2½	1½	1	5.00

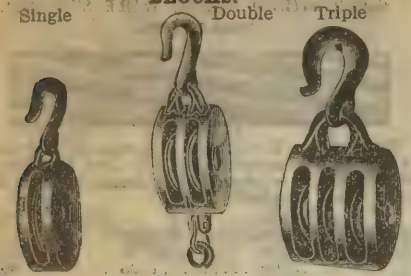
GUARANTEED MANILA ROPE.
Brand New.

No. 9-A-1. Made of the very best grade of carefully selected, long fibre pure manila. We guarantee every foot of this rope to be of the best quality and satisfactory in every particular.

Size Inches	Price per ft.
¼	$0.00½
⅜	.01
½	.01½
⅝	.02½
¾	.03
1	.04
1¼	.05
1¼	.06
1½	.07

BLOCK AND TACKLE

IRON STRAPPED WOOD SHELL TACKLE BLOCKS.



These blocks are of the best possible construction. Have special chilled steel pins and iron sheaves with edges properly rounded to prevent the rope from fraying.

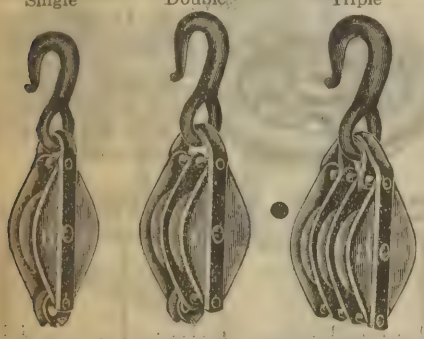
We can furnish these blocks either with or without beckets. When used in pairs, one should be plain and the other with becket. When becket is required, be sure to order accordingly. Price of blocks with or without the beckets is the same.

These blocks are to be used only for manila rope. You cannot use wire rope or chain in connection with these blocks.

No. 4-A-414. Without becket.
No. 4-A-415. With becket.

Diam. Rope Inches	Length of Shell	Single Pulley	Double Pulley	Triple Pulley
¾	3	$0.16	$0.30	$0.40
¾	4	.19	.38	.50
¾	5	.20	.42	.55
¾	6	.26	.47	.70
¾	7	.30	.56	.82
1	8	.39	.67	1.00
1¼	10	.65	1.10	1.45
1¼	12	1.05	1.70	2.50
1¼	14	1.80	2.75	3.75
1½	15	2.20	3.50	4.50

STANDARD STEEL TACKLE BLOCKS. For Manila Rope.



These are lighter than wood blocks and equally as strong. Are made with forged steel hooks, straps, pins and shells. Straps extend full length of shell, giving strength and rigidity to the blocks and furnishing proper support for beckets. Shells have nicely rounded edges to protect rope. These blocks are intended for use with manila rope only. You cannot use wire rope or chain.

No. 4-A-416. Without becket.
No. 4-A-417. With becket.

Diam. Rope Inches	Length of Shell	Single Pulley	Double Pulley	Triple Pulley
¾	3	$0.17	$0.31	$0.42
¾	4	.20	.39	.50
¾	5	.22	.43	.55
¾	6	.27	.48	.70
¾	7	.32	.57	.83
1	8	.40	.68	1.00
1¼	10	.66	1.08	1.48

STANDARD WOOD SHELL IRON STRAPPED SNATCH BLOCKS.

No. 4-A-418.

Size of Sheave	Diam. Rope Inches	Length of Shell Inches	Price Each
3 x1⅛	¾	6	$1.50
3½x1⅛	⅞	7	1.80
4½x1⅛	1	8	2.15
5 x1⅛	1⅛	9	2.50
5½x1⅛	1⅛	10	3.00
6½x1⅛	1⅛	12	3.60
8 x2⅛	1⅛	14	5.00
9 x2⅛	2	16	6.25

STEEL SNATCH BLOCKS.

No. 4-A-419. These blocks are much stronger than other metal and wood shell blocks, and they are practically indestructible. The shell is made of special wrought steel, edges nicely rounded to prevent the rope from wearing, and will outlast the cheaper metal blocks. The steel block we can recommend for the heaviest work.

Can not be used with wire rope or chain.

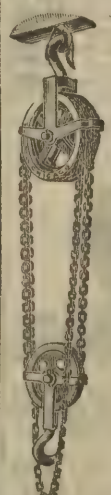
Size of Sheave Inches	Diam. Rope Inches	Length of Shell Inches	Price Each
3 x1⅛	¾	6	$2.00
3½x1⅛	¾	7	2.20
4½x1⅛	1	8	2.80
5 x1⅛	1⅛	9	3.20
5½x1⅛	1⅛	10	3.60
6½x2⅛	1⅛	12	4.60
8 x2¼	1¼	14	6.00
9 x2⅛	2	16	8.00

WIRE ROPE BLOCKS.

No. 4-A-420. These blocks are specially designed to be used in connection with wire hoisting rope, having large sheaves.

You ca nnot use the wood and iron shell manila rope tackle blocks in connection with the wire rope owing to the fact that the sheaves are too small to permit the wire rope running freely over them.

Diam. Of Shv.	For Rope In.	Single Price Each	Double Price Each	Triple Price Each
10	⅝ and less	$5.25	8.00	$10.65
14	¾	7.45	10.25	13.85
16	⅞	8.50	11.25	16.00



BRAND NEW WESTON DIFFERENTIAL CHAIN HOIST.

No. 4-A-421. Tested to full weight before shipment. This is the simplest and cheapest type of chain hoist, and has the fewest parts of any hoist made. The chains are specially made, are finely finished and carefully hardened to prevent wear. This hoist will hold a load at any point. Each hoist is guaranteed fully in every particular.

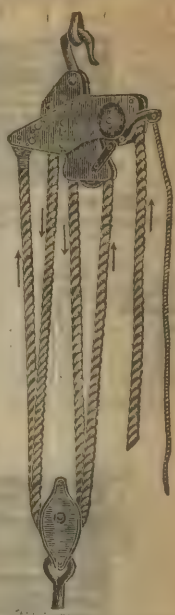
Capacity Tons	Will lift feet	Price Complete	Extra Chain Price per Ft.
½	6	$ 8.25	$0.27
½	7	8.85	.28
1	8	11.50	.32
1½	8½	15.80	.35
2	9	19.90	.37
3	10	24.90	.41

IMPROVED SCREW CHAIN HOIST.

No. 4-A-422. These hoists are powerful and compact. They are extensively used for all classes of work. They are much easier to operate than the Differential Hoist, inasmuch as they are geared up. The gearing is enclosed in oil tight housing and the working parts are thus always immersed in oil, insuring smooth action and thorough lubrication.

Capacity Tons	Wt. lbs.	Will lift feet	Price Complete	Extra Chain Price per ft.
½	50	8	$20.00	$1.00
1	60	8	24.00	1.20
1½	76	8	32.00	1.40
2	125	9	40.00	1.60
3	190	10	60.00	1.75
4	210	10	75.00	1.90

BURR STEEL SAFETY LIFTS.



These lifts are thoroughly practical and are much less expensive than the chain hoists. Are used largely by contractors, bridge builders, grocers, farmers, in fact can be used anywhere it is necessary to raise heavy weights. These lifts are made of the highest quality of steel and are practically indestructible. They have no wedge, eccentric springs or teeth that will get out of order. The brake against which the rope is locked is smooth and therefore cannot injure the rope.

These lifts are designed to be used in connection with manila rope only. Prices quoted do not include the rope.

No. 4-A-423. Size No. 3, for ⅜ inch rope. One man can hoist 300 lbs. Double lower block, weight 4½ lbs. Capacity 800 lbs. Price..... $0.90

No. 4-A-424. Size No. 4, for ½ inch rope. One man can hoist 350 lbs. Double lower block, weight 6½ lbs. Capacity 1,500 lbs. Price..... 1.70

No. 4-A-425. Size No. 5, for ⅝ inch rope. One man can hoist 400 lbs. Double lower block, weight 11 lbs. Capacity 2,000 lbs. Price. $2.20

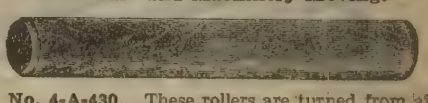
No. 4-A-426. Size No. 6, for ¾ inch rope. One man can hoist 450 lbs. Double lower block, weight 17 lbs. Capacity 2,500 lbs. Price..... 2.65

No. 4-A-427. Size No. 4½, for ½ inch rope. One man can hoist 600 lbs. Triple lower block, weight 10 lbs. Capacity 3,000 lbs. Price..... 3.15

No. 4-A-428. Size No. 5½, for ⅝ inch rope. One man can hoist 700 lbs. Triple lower block, weight 20 lbs. Capacity 3,500 lbs. Price..... 3.75

No. 4-A-429. Size No. 6½, for ¾ inch rope. One man can hoist 850 lbs. Triple lower block, weight 28 lbs. Capacity 5,000 lbs. Price..... 4.35

HARD MAPLE ROLLERS. For House and Machinery Moving.



No. 4-A-430. These rollers are turned from air seasoned, quarter-sawed rock maple squares. They are free from hearts. Only the best and toughest part of the log being used. All rollers are treated with boiled linseed oil and ends are painted before shipment.

Guaranteed to be the best possible to produce.

Diam. Inches	Length Feet	Price Each	Diam. Inches	Length Feet	Price Each
3	3	$0.35	5½	6	$1.60
3	4	.42	6	3	1.05
3½	3	.50	6	4	1.30
3½	4	.60	6	4′ 8″	1.50
4	3	.56	6	5	1.60
4	4	.70	6	6	1.85
4	5	.88	7	3	1.40
5	3	.77	7	4	1.75
5	4	.95	7	4′ 8″	2.10
5	5	1.20	7	5	2.20
5	6	1.35	7	6	2.52
5½	5	1.40	7	7	3.00

IRON ROLLERS.

No. 4-A-431. Made of Light Tubing. Can furnish in lengths from two to twelve feet.

Outside diam.	Approx. Weight per ft. lbs.	Price per ft.	Outside diam.	Approx. Weight per ft. lbs.	Price per ft.
2	2	$0.07	4½	6½	$0.16
2½	2½	.09	5	7½	.18
3	3½	.11	6	10½	.25
3½	4½	.12	8	15	.50
4	5½	.14			

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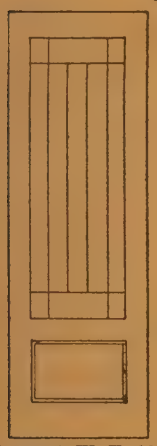
World's Fair Doors Cheaper Than the Bare Cost of Lumber

BARGAIN LOT OF USED DOORS



No. 10-A-W. F. 100 and 101

No. 10-A-W.F.100. 300 Doors, size 3 ft. 6 in. x 10 ft. 10 in., 2¼ in. thickness, glazed, 11 lights, ⅛ in. ribbed glass. Each,.....**$3.00**

No. 10-A-W.F.101. 200 Doors, size 3 ft. 6 in. x 12 ft., 2¼ in. thickness, 11 lights, ⅛ in. ribbed glass. Each **$3.25**

The above Doors were used only during the World's Fair period at St. Louis. Original cost is from $7.00 to $9.00 each. They can be used for outside walls or inside partitions as well. They will build you as good an office or summer home as you can erect out of new material, at less than one-third the cost.

50c

FOR THIS FINE DOOR.

This is a street car door; would cost to have made at least $5.00. Glazed double strength clear glass fastened with cleats and screws. No putty to work loose. Size of glass 1 ft. 8 in. x 2 ft. 9 in. Size of door, 2 ft. x 5 ft. 3 in. We have 600. While they last, each.. 50c

No. 22-W.F. 102.

USED DOORS. ALL KINDS, CUT PRICES

No. 10-A-W. F. 103. Doors, sizes 2 ft. 7 in. x 6 ft. 10 in. to 2 ft. 7 in. x 7 ft. 10 in, 2¼ in. thickness, glazed 1 light, ⅛ in ribbed glass, could be cut down to intermediate sizes, each.....**$1.25**

No. 10-A-W. F. 104. Fifty Doors, size 3 ft. 2 in. x 9 ft. 2 in., 2¼ in. thickness, No. 15, size. See cut, kind ⅛ in. ribbed glass, Georgia pine with lock and hinges, each.....**$4.00**

No. 10-A-W. F. 105. Ten Doors, size 2 ft. 2½ in. x 6 ft. 11 in., 1¾ in. thickness, No. 1, size 15 in. x 38 in., kind clear glass, panels 3 cross below glass, Georgia pine.....**$1.25**
See Cut No. 13. Georgia pine complete with hardware.....**$4.00**

No. 10-A-W. F. 105. Seventy-five Doors, size 2 ft. 11 in. x 8 ft. 11 in., 2¼ in. thickness, No. 6, size 13 in. x 28 in., kind ⅛ in. ribbed glass, complete with hardware, each.....**$3.00**

No. 10-A-W. F. 107. Fifty Doors, size 2 ft. 8 in. x 7 ft., 2¼ in. thickness, No. 1, size 20 in. x 28 in., kind ⅛ in. ribbed glass, panels 1 large square below glass Georgia pine, each.....**$3.00**

No. 10-A-W. F. 108. Fifty Doors, size 2 ft. 8 in. x 7 ft. 3 in. 2¼ in. thickness, No. 1, size 20 in. x 32 in., kind ⅛ in. ribbed glass, panels 1 large model below, complete with hardware, each.....**$3.25**

No. 10-A-W. F. 109. One Hundred Doors, size 3 ft. 6 in. x 9 ft., 2¼ in. thickness, kind ⅛ in. ribbed glass, 1 square panel below.....**$3.75**

No. 10-A-W. F. 110. Ten Doors, size 6 ft. 6 in. x 16 ft., 4 in. thickness, kind ⅛ in. ribbed glass, panels 2 model below, complete with hardware, each.....**$8.00**

No. 10-A-W. F. 111. Fifty Doors, size 3 ft. 2 in. x 10 ft., 2¼ in. thickness, kind ⅛ in. ribbed glass, 1 square panel below, painted white, complete with hardware.....**$6.00**

No. 10-A-W. F. 112. Fifty Doors, size 3 in. x 12 ft., 2¼ in. thickness, kind ⅛ in. ribbed glass, 1 square panel below, painted white, complete with hardware.....**$7.00**

No. 10-A-W. F. 113. Fifty Doors, 4 ft. 2 in. x 10 ft. 8 in., 2¼ in. thickness, No. 10, kind ⅛ in. ribbed glass, 1 square panel below, Georgia pine, each.....**$3.75**

No. 10-A-W. F. 114. 1 Pair Front Doors, size 7 ft. 2 in. x 9 ft. 6 in. or 3 ft. 7 in. x 9 ft. 6 in. each x 2¼ in glazed, 2 lights, bevel plate glass, ornamental wrought iron trimmings and cross rails, brass handle bars, size of glass, 32x50 in. x 32x14 in. Price per pair.....**$17.50**

No. 10-A-W. F. 115. Ten Pairs Double Doors, size 6x10 ft., each door 3x10 ft., 2¼ in. thickness, glazed, 6 lights 13x28 in., ⅛ in. ribbed glass, 1 square panel below, per pair.....**$3.00**

No. [illegible]-W. F. 116 and 117

JOB LOT NEW DOORS

1 3-8-INCH 4-PANEL O. G. DOORS, RAISED PANELS BOTH SIDES.

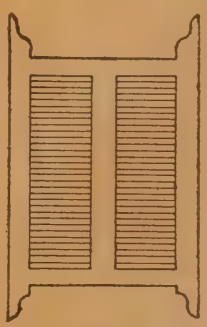
These doors have soft pine stiles and rails and mixed wood panes. Can be used any place except where oil finish is desired. They are not free from knots.

No. 10-A-W. F. 116. Size 2 ft. 6 in. x 6 ft. 6 in. Price, each **$0.98**

No. 10-A-W. F. 117. Size 2 ft. 8 in. x 6 ft. 8 in. Price, each.....**$1.05**

SWINGING SLAT 25c

No. 10-A-W.F. 118. Swing Slat Doors for closet doors, summer doors, etc., 1500 of above and similar designs. These were used during the St. Louis World's Fair period as swinging doors. Sizes from 2 ft. 4 in. x 4 ft. to 3 ft. 4 in. x 4 ft. 9 in., 1⅜ in., 1¼ in. slats are in extra good condition, each.....**$0.20**



No. 10-A.W.F 118

USED SLIDING DOORS

	Quan. pairs	Size of single door	Thickness, Inches	PANELS on each door	REMARKS	Price per pair
No. 10-A-119	4	3 ft.x9ft.4 in.	3	2 large molded Panels	Bl'k Wal't, ven'red	$12.00
No. 10-A-120	3	2 ft.10 in.x 9 ft.6 in.	2¾	same as Lot A138	Bl'k Wal't, ven'red	10.50
No. 10-A-121	2	3 ft.x9 ft.6 in.	3	7 molded	Slightly dam...	4.50
No. 10-A-122	4	4 ft.x9 ft.4 in.	3	2 large, molded	Bl'k Wal't, ven'red	12.00
No. 10-A-123	3	2 ft.10 in. x 9 ft. 6 in.	2¾	Panels same as Lot A138	Bl'k Wal't, ven'rd	10.50

USED DOUBLE DOORS

10-A-124 2 2ft.6 in.x9 ft. 2¾ 2 fancy mol'ed on other Bl'k Wal't, ven'red **$ 8.50**
10-A-125 4 2ft.6in.x9ft.3 in.2½2 molded on both sides " " " **10.00**
10-A-126 2 6ft.x11ft.7in. 2¾ 6 lights 18 in.x 15 in, clear 3 large cross panel below, Georgia pine **11.50**

GLAZED SWINGING DOORS

No. 10-A-127. 1 pair 3 ft. 7 in.x9 ft. 6 in. each 2¼ in. glazed, 2 lights, beveled plate glass, 1 light 32 in.x14 in. 1 light 32 in.x50 in. 6 square panels below lights, brass trimmings, hand bars and corner plates. Price, per pair.....**$17.50**

SELLING CHEAPER THAN LUMBER—WE HAVE 1000 DOORS

These doors are mainly high grade World's Fair doors, will run in size. from 2 ft. 2 in. to 2 ft. 6 in. wide and from 8 ft. to 11 ft. long, from 1¾ in to 2 in. and some 3 in. thick.

You can take these doors and build a wall with them practically cheaper than with lumber and they will make a much better wall, cost less in labor and last longer. Just the thing for temporary buildings, etc.

Prices from 50c to $2. Write and tell us what you can use.

World's Fair Sash at Unheard of Low Prices

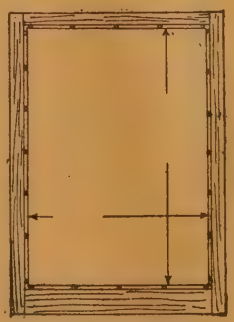
We call your attention to the following list of World's Fair sash that we have on hand on which we are making prices that are less than one quarter the cost of new. These sash are practically as good as new. They are in first-class condition. We pack and crate them carefully and guarantee safe delivery. All sash when shipped from here are whole and no broken panes are shipped. These sash are suitable for any number of purposes; enclosing porches, making "sun" houses; for **Factory** and **County Fair Building** purposes as well as any other building where an abundance of light is desired, they are very desirable. WHEN ORDERING give as much leeway as you can as to the size. It may be that a size 1 inch or so smaller or larger will answer your purpose just as well and enable us to fill your order complete, whereas if the size you state is exact it may mean that we will be unable to fill your order. All this material is offered subject to prior sale.

Lot No.	Quan.	Size	Thickness	No. of Lights	Size of Lights	How Glazed	Price Each
10-A-W. F. 1	19	4'5"x6'10"	2¼"	9	15"x25"	⅛"	Ribbed $2.10
10-A-W. F. 2	100	5'10"x17'6"	1¾"	21	20"x27"	⅛"	" 6.48
10-A-W. F. 3	25	5'4"x6'10"	1¾"	25	10"x13"	⅛"	" 2.10
10-A-W. F. 4	30	4'8"x8'8"	1¾"	35	10"x14"	⅛"	" 2.70
10-A-W. F. 5	70	8'6"x8'8"	2¼"	9	30"x30"	⅛"	" 4.86
10-A-W. F. 6	13	8'6"x8'8"	2¼"	12	24"x28"	⅛"	" 4.86
10-A-W. F. 7	100	6'4"x9'5"	2¼"	5	23"x23½"	⅛"	" 4.20
10-A-W. F. 8	21	7'4"x7'9"	1¾"	12	20"x28"	⅛"	" 3.84
10-A-W. F. 9	19	8'0"x12'0"	1¾"	20	21"x25"	⅛"	" 5.76
10-A-W. F. 10	200	2'10"x8'10"	1¾"	12	14"x15"	⅛"	" 1.62
					Divide into 24 diamond lights.		
10-A-W. F. 11	39	4'10"x7'8"	1¾"	35	10"x12"	⅛"	Ribbed 2.40
10-A-W. F. 12	50	3'2"x7'2"	1¾"	2	32"x42"	⅛"	" 1.92
10-A-W. F. 13	50	2'5"x3'7"	1¾"	4	12"x19½"	⅛"	" .72
10-A-W. F. 14	30	5'4"x16'0"	1¾"	18	19"x30"	⅛"	" 5.76
10-A-W. F. 15	13	2'10"x7'2"	2¼"	1	29"x80"	⅛"	" 1.44
10-A-W. F. 16	475	2'5"x17'6"	1¾"	10	12"x44"	⅛"	" 3.24
10-A-W. F. 17	460	2'7"x17'6"	1¾"	10	13"x44"	⅛"	" 3.24
10-A-W. F. 18	50	1'10"x7'10"	1¾"	4	18"x21"	⅛"	" .96
10-A-W. F. 19	22	2'4"x6'11"	2¼"	2	24"x40"	⅛"	" 1.26
10-A-W. F. 20	17	1'10"x4'0"	1¾"	2	16"x22"	⅛"	" .48
10-A-W. F. 21	100	2'0"x4'8"	1¾"	4	10"x23"	⅛"	" .60
					Made 5 lights Gothic and square in.		
10-A-W. F. 22	10	2'1"x4'3"	1¾"	12	11"x12"	Gla.	clear glass .90
10-A-W. F. 23	50	2'0"x4'5"	1¾"	4	10"x24"	"	" .90
10-A-W. F. 24	135	2'5"x4'9"	1¾"	2	12½"x52"	"	" .90
10-A-W. F. 25	180	2'7"x4'9"	1¾"	2	14"x52"	"	" .90
10-A-W. F. 26	50	1'2"x9'6"	1¾"	5	12"x16"	"	" 1.20
10-A-W. F. 27	50	4'9"x6'0"	2¼"	15	6"x13"	"	" 1.80
10-A-W. F. 28	25	2'8"x5'5"	1¾"	Glazed with ⅛" Ribbed Glass			1.08
10-A-W. F. 29	40	5'2"x5'2"	1¾"	16	Glazed Fancy Design		2.16
10-A-W. F. 30	150	1'10"x4'8"	1¾"	1	18"x52"	Gla.	clear glass .60
10-A-W. F. 31	100	3'7"x1'9"	1¾"	1	39"x18"	"	" .48
10-A-W. F. 32	40	3'9"x3'9"	1¾"	6	14"x13½"	⅛"	Ribbed .96
10-A-W. F. 33	38	6'8"x13'11"	2¼"	28	18"x22"	⅛"	" 5.88
10-A-W. F. 34	35	1'1"x9'9"	2¼"	5	9"x21"	⅛"	" 1.20
10-A-W. F. 35	20	4'11"x9'9"	2¼"	8	26"x27"	⅛"	" 3.00
10-A-W. F. 36	10	4'6"x6'0"	2¼"	6	16"x22"	⅛"	" 1.80
10-A-W. F. 37	25	4'4"x5'4"	1¾"	2	46"x28"	⅛"	" 1.80
10-A-W. F. 39	100	2'7"x3'9"	1¾"	1	24"x38"	⅛"	" .72
10-A-W. F. 40	150	3'1"x3'3"	1¾"	1	34"x35"	⅛"	" .96
10-A-W. F. 41	25	2'7"x4'2"	1¾"	1	27"x42"	⅛"	" .90
10-A-W. F. 42	75	2'11"x3'0"	1¾"	1	28"x32"	⅛"	" .54
10-A-W. F. 43	180	2'8"x2'10"	1¾"	1	27"x30"	⅛"	" .54
10-A-W. F. 44	65	2'7"x2'11"	1¾"	1	26"x30"	⅛"	" .54
10-A-W. F. 45	120	2'10"x3'10"	1¾"	1	28"x42"	⅛"	" .72
10-A-W. F. 46	37	2'11"x3'4"	1¾"	1	29"x35"	⅛"	" .72
10-A-W. F. 47	160	2'10"x3'4"	1¾"	1	28"x34"	⅛"	" .72
10-A-W. F. 48	173	2'10"x3'3"	1¾"	1	28"x34"	⅛"	" .72
10-A-W. F. 49	83	2'8"x3'3"	1¾"	1	26"x35"	⅛"	" .72
10-A-W. F. 50	70	3'3"x3'3"	1¾"	1	35"x35"	⅛"	" .96
10-A-W. F. 51	15	3'3"x3'7"	1¾"	1	34"x38"	⅛"	" .96

Lot No.	Quan.	Size	Thickness	No. of Lights	Size of Lights	How Glazed	Price Each
10-A-W. F. 52	200	2'1"x2'9"	1¾"	1	21"x29"	⅛"	Ribbed $0.54
10-A-W. F. 53	35	2'4"x4'2"	1¾"	1	24"x46"	⅛"	" .90
10-A-W. F. 54	180	2'8"x2'10"	1¾"	1	28"x30"	⅛"	" .54
10-A-W. F. 55	173	3'1"x3'2"	1¾"	1	33"x34"	⅛"	" .96
10-A-W. F. 56	75	2'8"x2'10"	1¾"	1	28"x20"	⅛"	" .54
10-A-W. F. 57	15	4'4"x4'8"	2¼"	6	16"x22"	⅛"	" 1.50
10-A-W. F. 58	40	3'2"x3'2"	1¾"	4	16"x16"	⅛"	" .96
10-A-W. F. 59	40	2'9"x2'10"	1¾"	6	10"x14"	⅛"	" .54
10-A-W. F. 60	6	4'0"x4'2"	1¾"	12	11"x14½"		Clear 1.20
10-A-W. F. 61	17	3'7"x4'0"	1¾"	1	40"x42"		" .96
10-A-W. F. 62	10	2'3"x4'8"	1¾"	3	16"x22"	⅛"	Ribbed 1.20
10-A-W. F. 63	30	4'4"x4'9"	1¾"	6	16"x22"	⅛"	" 1.50

Plate Glass

10-A-W. F. 64	80	32"x52"	Best French Plate ¼" thickness, taken
10-A-W. F. 65	20	42"x52"	from Ferris Wheel cars.
10-A-W. F. 66	35	40"x42"	



No. 10-A-SC. 67
No. 10-A-SC. 68

35c

We have 1,500 of these handsome hardwood sash, taken from street cars. Best double strength clear glass.

No. 10-A-SC. 67. Outside size of sash: 24¾ inches x 35 inches.
Size of glass: 20½ inches x 29 inches.

No. 10-A-SC. 68. Outside size of sash: 26¾ inches x 35 inches.
Size of glass: 22 inches x 29 inches.

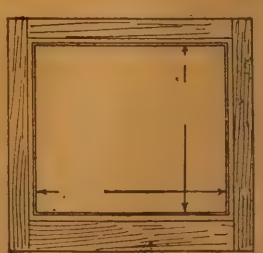
Glass fastened with hardwood cleats, screwed and most of the glass is set in rubber, making them noise proof. Worth three times the price.

25c

Buys this exceptionally well manufactured street car sash.

No. 10-A-SC. 69. Outside size of sash: 26 inches x 27 inches.
Size of glass: 22 inches x 21⅞ inches.

Same construction as No. 10-A-S. C. 67 The price we ask hardly covers the cost of glass.



No. 10-A-SC. 69

Gasoline Torches

Light your dark places well. A poor light is an aggravation and expense. A good light is a joy and profit.

THE INVINCIBLE TORCH

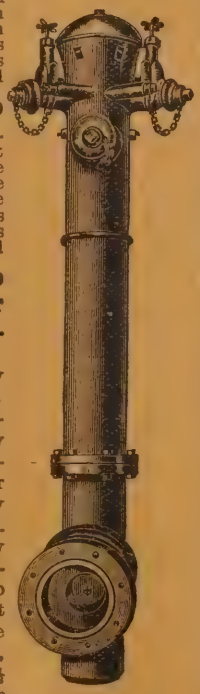
No. 4-A-1487.

The Invincible Wall Torch is the best and simplest Torch made, and for street stands, street and building work, tents, camps, steam boat landings, freight sheds, shops and warehouses it is unequaled. It is very little affected by dust, snow or rain, and cannot be blown out by wind. The one gallon tank is strongly made and braced and can be removed if desired. A solid bronze ring is provided to hang it up, and the feed pipe connection is also bronze. The burner is simple, durable and powerful, and like all our burners, is well known to the trade. A bronze check or shut-off valve adds to its safety in case of accident or carelessness. These torches are rapidly gaining in popularity, and their use is being continually extended on account of the effective work done. Our torches give a bright, clear flame scarcely inferior to an arc light in capacity. Each.....**$0.88**

Hydrants and Indicators

Used at the St. Louis World's Fair

THE PRATT & CADY HYDRANTS



No. 4-A-1488. 25 5¼ inch hydrants manufactured by Pratt & Cady Company, of Hartford, Conn. Set 4 feet in the ground, have 2 2½ inch hose connections and 1 4 inch steamer connection; inlet is fitted with companion flanges for 8 inch standard threaded pipe.
Price, each.....**$20.00**

No. 4-A-1489. 50 4½ inch hydrants manufactured by Pratt & Cady Company. These hydrants set 3 feet in the ground, have 2½ inch hose connections, and the inlet is fitted with companion flanges for 4 inch standard threaded pipe.
Price, each.....**$15.00**

THE COREY HYDRANT

No. 4-A-1490. 30 Corey hydrants manufactured by the Rensselaer Company Troy, N. Y. They are designed to set 4 feet in the ground, have 2 2½ inch hose connections and 1 4 inch steamer connection; fitted with companion for standard 8 inch flanges threaded pipe.
Price, each.....**$20.00**

No. 4-A-1491. 40 Corey hydrants, designed to set 3 feet in the ground, have 2 2½ inch hose connections; inlet is fitted with companion flanges for 4 inch standard threaded pipe.
Price, each.....**$15.00**

La Gripper Wrench

3000 Purchased at Manufacturer's Sale.

To adjust the wrench from one size to another, spread the handle and draw the jaws open or push them shut, as you wish, and as soon as you let go of the handle the wrench will stay that size until it is adjusted again. To take hold of a pipe, nut or any object, open the wrench wide enough to allow the object to slip in between the jaws, then push the jaws up as close as you can, and grip the handles together. **This makes the jaws move 1-4 of an inch closer together,** and makes a firmer grip on the object. After turning the object let the handles open and the jaws instantly release their hold by moving apart as you will readily see.

STYLE D.

No. 1-A-1510. Ten inch opens....1 1-4 inches
No. 1-A-1511. Fourteen inch opens.. 2 inches

This style is made only in 10 and 14 inch sizes, and is designed to any class of work for which a common monkey wrench is used, but it has the same adjustment and grip of all the **La Gripper Wrenches** "B," except that it has square smooth jaws and is made of malleable iron.

No. 1-A-1512. Ten inch, each.....**$0.25**
No. 1-A-1513. Fourteen inch..... .35

STYLE B.

This is the only wrench made that will turn a pipe standing against the wall, and it has the alligator jaw. It will turn a pipe or nut if you have but one inch space to move the handle, but in using any other wrench you must have three or four inches to move the handle before you get the grip on the object, as they all have a clamp grip. This style serves the purpose of a pipe wrench, tweezers, pinchers, hand vice, etc.

The six inch size opens one-half inch. Ten inch opens one inch. Fourteen inch opens one and one- half inch. The above furnished in smooth jaws for finished work if desired.

No. 4-A-1493. 6 inch...**$0.35**
No. 4-A-1494. 10 " ... .40
No. 4-A-1495. 14 " ... .50

STYLE E.

Ten inch opens.....1 inch
Fourteen.....1 1-4 "

This style is made in **Ten and Fourteen inch only,** same as style "D" except that it has a slanting jaw, which is much better to use in close places, for you can grip a nut in any position and turn it.

This wrench like all La Gripper Wrenches **never slips off even if the corners of the nut are round,** and you always get a full turn of a nut.

No. 4-A-1496. 10 inch, ea.**$0.25**
No. 4-A-1497. 14 " " .35

COLD WATER PAINT

No. 4-A-1498. We have a carload of strictly first class cold water paint equal to any manufactured, that we can furnish only in the following shades:

Buff	Pink
Light Stone	Terra Cotta
Canary	Slate
Black	

Price, per bbl. of 500 lbs.....**$0.02** per lb.
" " 100 lb. lots..... .02½ "
" in less quantities..... .03 "

STRIP ADMISSION TICKETS

We Can Make Immediate Delivery.

No. 4-A-1499.

One-half Actual Size.

Stock Tickets same as shown in this illustration, plainly printed on one side "Admit One." The back is nicely engraved so that they are easily recognized. They are put up 2,000 to a roll. They are consecutively numbered. We can furnish them in ten different colors. Our prices are as follows:

In lots of 50,000 or more.....**$0.10**
In smaller quantities..... .11

We will ship C. O. D. where a deposit of 25 per cent accompanies order. It will, however, save time and expense of paying return charges if you will send the correct amount with your order. All tickets are correctly numbered, perforated and notched. We can not guarantee that the numbers will begin with one or any other particular number.

The Famous Universal Fire Kindler

No. 4-A-1500.

The cheapness of coal oil and its universal use in every household has long since been acknowledged as the most convenient and quickest means of starting a fire. The famous Universal Fire Kindler brings safety and economy to the home, is clean and convenient, to start either coal or wood fires without the aid of other kindling. The Kindler is about twelve inches in length, is so constructed as to be very porous, easily and quickly saturated and indestructible by fire. The handle is made of steel wire. The Kindler will absorb from one to two ounces of oil and burn from ten to fifteen minutes. It cannot explode or get out of order. Light it and hold it until it burns out and see what a long, intense heat it makes.
Each.....**15c.** Per dozen....**$1.25**

CARE'S COMBINATION TOOL HOLDER

No. 4-A-1501. The collar is drop forged and case hardened; the set screw is steel, hardened; the shank, steel, case hardened, and tools of self hardening steel.

It will be readily seen that the holder combines two in one, and its usefulness will be apparent to all users of such tools. We furnish two tools with each holder, one diamond point and one ground for cutting off on one end and threading on the other.

PRICE LIST

No.	Size of Shank.	Size of Cutter.	Price
1	¾x ¾x6 in.	¼ in. square	$0.25
2	⅞x1 x6 in.	¼ in. square	.35
3	⅞x1¼x7 in.	⅜ in. square	.45
4	1x1⅜x9 in.	⅜ in. square	.50

Asphalt Scrapers.

No. 4-A-1505. Forty Steel Asphalt Scrapers, made by the Austin Manufacturing Co. for use at the St. Louis World's Fair. Good as new...**$2.00**

Steel Flag Poles.

We make to order sectional steel tube flag poles in any length and of any desired size. Write us your wants.

OIL CUP

No. 14-A-1502.

Brand new, zinc body, brass bottom, 1¼ inch diameter, 1½ inch spout, 2½ inches long over all.
Each.....**$0.05**
Per dozen..... .50

JOB OF TWO-MAN CROSS CUT SAWS

No. 4-A-1503. 250 Cross Cut Saws of various kinds and makes, ranging in length from 4 ft. 6 in. to 7 ft. long. They are in good usable condition and most of them are manufacturers' seconds. Sell without regard to selection. All orders filled just as they come.
Price, per saw.....**$0.70**

JOB OF READY ROOFING

No. 4-A-1504. 5000 rolls, manufacturers' second, in Ready Roofing. This is regular rubber surfaced material and is defective in that it sticks slightly and the surface coating is rough. We do not guarantee the material and sell it "as is," and none of it will be taken back. It makes handy material for lining, and also for temporary roofs; also for poultry houses, etc. It is put up some two squares and some one square to the roll. We sell it just as it comes without distinction.
Price, per square.....**$0.50**
" " of 10 squares at a time..... .35
Cement, nails and caps not included.

Meat Hooks

Tinned Wrought Steel

No. 4-A-1506.

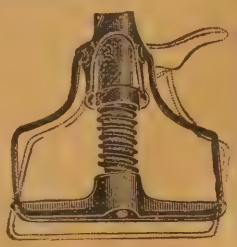
Nos.	21	23	26
Inches	3-16	1-4	5-16
Per gross	70c	80c	90c

Half gross in a box.

No. 1-A-1507. Extra heavy wrought steel, tinned, of 1-2 —3-4—1—1¼—1½—2¾ in Brass ½ in. square.
Per dozen.....40c

Mop Handles

Iron Head Spring Screw Adjuster



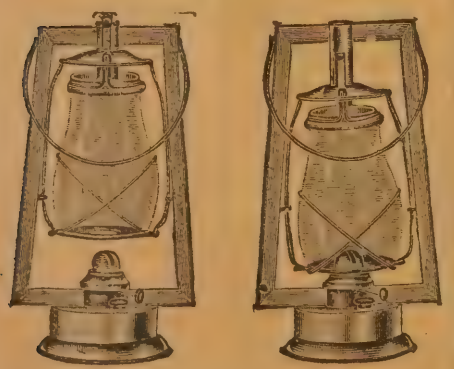
No. 4-A-1508.

We bought the entire stock of manufacturer. This is an excellent bargain and no housekeeper should be without them.
Each 5c

Handled Axes

No. 4-A-1509. 150 dozen handled, strictly first-class Axes, made of the highest grade oil tempered razor steel, black japanned and polished edge. We obtained them at a forced sale for a price that barely represents the cost of manufacture. In offering these axes, we make the claim that they are equal to any axe manufactured on earth. They were made by one of the largest manufacturers in the best equipped axe factory in the United States, where great care is used in the selection of material. The straight blade and blunt, wedge shaped head is so formed that it will cut deeper without binding than any other axe on the market. The eye is oval shaped and tapers toward the neck, which prevents the handle coming loose. The handle is made from young growth of well seasoned hickory. Through a peculiar bend in the handle this axe always cuts in a slanting direction without the necessity of twisting the wrist. This is a point that will be greatly appreciated by lumbermen. Weighs 4½ lbs. Each 30c. Per dozen.....$3.00

Tubular Lanterns



No. 4-A-1492. We bought at manufacturers' sale two carloads of these strictly perfect, brand new, tubular lanterns, top lift, No. 0 globe, ⅝ in. burner, ⅝ in. wick, packed one dozen in a case.

You had better send in your order before they are all gone. Note our prices.

Each $0.25
Per dozen 50

SWEEPING MACHINES.

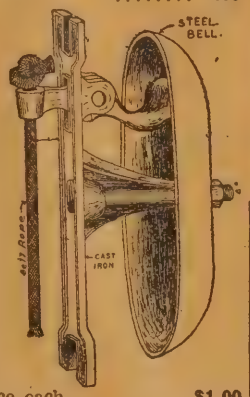
No. 4-A-1514. These wonderful sweepers came to us from the World's Fair, St. Louis. They are the most practical sweeper manufactured. Were used in keeping clean the highways of the exposition. They are named the "Peerless" and are fully deserving of the name. Useful for parks, public buildings, factories, theatres, hotels, etc. We have 20 of them. Each, with extra brush.....$25.00

Paper Flower Pots.

No. 4-A-1515.

2½	inch,	per	dozen	$0.03
2½	"	"	"	.04
3	"	"	"	.05

Gong Bells.



Two hundred Gongs like illustration. They were used on street cars which we dismantled and are in first class condition in every way. The bell is 9 ins. in diameter and the castings for fastening are 9½ in. long. They are strongly built. Will give good general service. The bell proper is made of a special steel bell metal and gives a good strong sound.

No. 4-A-1516. Price, each.....$1.00

MEAT CUTTERS.

Purchased at Manufacturers' Sale. Guaranteed Brand New and in Perfect Condition.

With Clamp

This Meat Cutter is the result of long experience with, and careful study of the objectionable features of all other meat cutters, and we give it our unqualified guarantee as a first-class machine in every respect. Useful in preparing Salads, Mince, Hamburg Steak, Sausages, Hash, Croquettes, etc. The meat is never torn, but the two sets of knives insure the clean cutting of all parts to equal fineness, leaving no uncut sinews nor strings. Each cutter has a perforated plate with holes O$\frac{5}{32}$ inches in diameter.

No. 4-A-1517. Small size for family use.
Each $0.75

DOOR KEYS

We bought the complete salvage stock of J. F. Wollensack, one of the best known manufacturers of locksmiths' supplies in the country. This stock consists of keys of all kinds; that is, flat keys, key blanks, trunk keys, door keys, chest keys; in fact, everything manufactured in the key line. They are all steel and iron keys and they are sold mixed together just as they come.

Prices as follows:

No. 4-A-1518.	Single lb. lots		$0.20	per lb.
	Lots of	5 lbs.	.06	"
	" "	10 "	.05	"
	" "	25 "	.04	"
	" "	50 "	.03	"
	" "	100 "	.02½	"
	" "	500 "	.02	"

GIRDER RAIL BEAMS.

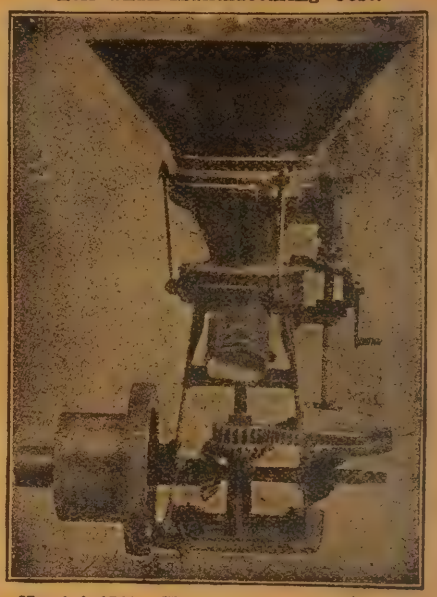
These rails can be used to decided advantage in construction of bridges, sidewalks or for reinforcements of concrete work of any kind. In fact, they can be used as a substitute on almost any work on which Standard I Beams are used.

You will note the construction of the upper flange is wider and gives a better clinging surface than an I Beam and for this reason when used in concrete makes a much better reinforcement.

We offer these rails in two sizes, 4½ in. and 7 in. high, weighing approximately 20 and 25 lbs. per foot respectively. As far as strength is concerned, the 4½ in. rail will compare favorably with a 7 inch Standard Beam. We have these rails ranging in lengths upwards of 40 feet. They are straight and sound and we offer them cut to such lengths as you require in either size. Price, per lb.....1 cent

NEW FEED GRINDERS.

Bought at Manufacturers' Sale We Offer at Less Than Manufacturing Cost.



No. 4-A-1519. This mill has a shut-off in the feed which will allow it to be reduced or increased in capacity as desired, depending upon the amount of power to be used. It has the best cob breaker and the best natural feed. It will not choke and will not heat the grain.

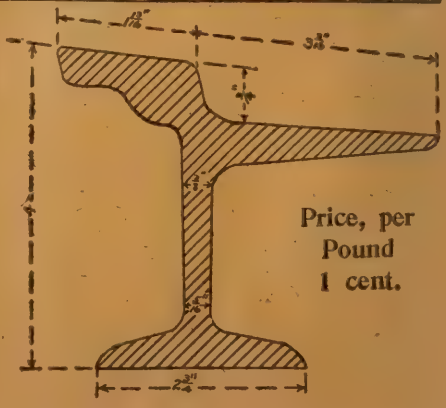
DIRECTIONS FOR OPERATING.

These mills are shipped set up complete, except the hopper, which is easily placed on the mill by putting the three rods in their places and screwing down the thumb screws. Set the mill in line with the power applied, that is, the shaft of the mill must be parallel to the driving shaft. Put smooth side of belt next to pulley and be sure mill is level. Should your belt slip apply castor oil. Before starting mill separate the burs by turning small hand wheel No. 35. After the mill is started adjust the burs to the fineness required. In starting the mill we advise grinding course for the first ten minutes, allowing the burs to become warmed and adjusted to the work. Start your mill with the brass cut-off closed, then open to allow the grain to pass in burs in quantity dependent upon the fineness you are grinding and the amount of power you are using. The burs are made of white metal, very hard and true. They are intended to shell corn and all grain for feed purposes.

The mill can be run by belt power, either horse, windmill, engine or electricity, and should be run at a velocity of between 750 and 1,000 revolutions.
Price.....$18.00

STREET CARS.

No. 4-A-1520. We bought the entire cable equipment of the Chicago City Railway Co., putting us in possession of numerous trailer cars which can be used by any Street Railway System using a girder rail. We have both closed and summer cars. All these are complete with trucks and all necessary equipment. We also have a number of car bodies without trucks. We have sold numbers of these to parties running lunch rooms or concessions at amusement parks and for similar purposes; also used for summer houses for children. We are quoting these bodies subject to inspection at Chicago, ft. each.....$50.00



IRON PIPE ROLLERS.

No. 4-A-432. Made of Heavy Tubing.

Outside Diam.	Approx. Wt. per ft. lbs.	Price	Outside Diam.	Approx. Wt. per ft. lbs.	Price per ft.
2	2¾	$0.06	5	13	$0.30
2½	3¾	.08	5½	15	.34
2¾	5¼	.13	6¼	19	.40
3¼	7½	.18	7¼	24	.50
4	9	.20	8¼	29	.70
4½	10½	.25			

WIRE ROPE CLIPS.

Brand New.

No. 9-A-8. These clips are used to make a loop or an eye at the end of a rope without splicing.

Size for Rope Diam. Inches	Price Each
¼	$0.06
⅜	.08
½	.09
⅝	.12
¾	.14
⅞	.16
1	.19
1¼	.21
1½	.25
1¾	.40
1½	.45

WIRE ROPE CLAMPS.

No. 9-A-9. For Bridges and Cable Ways.

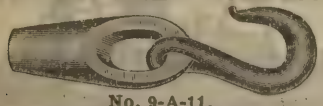
Size for Rope Diam. Inches	Price Each
¼	$0.25
⅜	.30
½	.40
⅝	.60
¾	.80
⅞	1.00
1	1.25
1¼	1.50
1½	1.90
1½	2.65

WIRE ROPE SOCKETS.—Closed Pattern.

No. 9-A-10.

Size for Rope Diam. Inches	Price Each	Size for Rope Diam. Inches	Price Each
⅜	$0.65	⅞	$1.70
½	.85	1	2.15
⅝	1.10	1¼	3.00
¾	1.45	1½	3.50

WIRE ROPE SOCKET WITH HOOK.



No. 9-A-11.

Size for Rope Diam. Inches	Price Each	Size for Rope Diam. Inches	Price Each
½	$1.35	⅞	$2.70
⅝	1.60	1	3.60
¾	1.90	1¼	4.50
⅞	2.35	1½	5.00

GALVANIZED WIRE ROPE THIMBLES.

No. 9-A-12.

Size for Rope Diam. In.	Price Each
¼	$0.03
⅜	.04
½	.04½
⅝	.06
¾	.07
⅞	.08
1	.09
1¼	.15
1½	.18
1¾	.25
1½	.35

PATENT WIRE ROPE HOOKS AND COUPLINGS.

These hooks are made of malleable iron and can be bent cold. The cheapest and simplest fastening for rope manufactured.

Fig. 3

No. 9-A-13. Fig. 3, Hook.

Size	½"	⅝"	¾"
Price	$0.15	$ .25	$ .46

No. 9-A-14. Fig. 5. Ring.

Size	½"	⅝"	¾"
Price	$0.15	$ .25	$ .46

Fig. 5

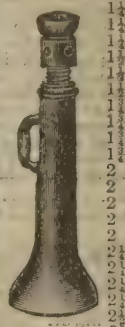
No. 9-A-15. Fig. 6. Coupling.

Size	½"	⅝"	¾"
Price	$0.15	$ .25	$ .46

Fig. 6

JACK SCREWS.

No. 4-A-433. The Bell Base of these Jack Screws is made of the toughest gray iron it is possible to obtain. The screws are wrought iron, lathe turned. Every Jack is tested and its carrying capacity is fully guaranteed. Levers are not furnished with the Jacks.



Diam. of Screw In.	Height of Stand Inches	Ht. over all In.	Lifting Capacity Tons	Price Each
1¼	8	10½	10	$0.95
1¼	10	12½	10	1.08
1¼	12	14½	10	1.20
1½	8	10½	12	1.21
1½	10	12½	12	1.35
1½	12	14½	12	1.47
1¼	8	10½	16	1.42
1¼	10	12½	16	1.63
1¼	11	14½	16	1.78
1¼	14	16½	16	1.92
2	10	13½	20	1.90
2	12	15½	20	2.13
2	14	17½	20	2.35
2	16	19½	20	2.63
2	12	15½	24	2.52
2½	14	17½	24	2.88
2½	16	19½	24	3.12
2½	18	21½	24	3.40
2½	12	16	28	3.05
2½	14	18	28	3.40
2½	16	20	28	3.78
2½	18	22	28	4.10
2½	20	24	28	4.45

"PREMIER" RATCHET JACKS.

No. 4-A-434. Easily operated, and can be used in close places. The stand of this Jack is made of tough gray iron and the screw is made of special steel with deep lathe cut thread.

Diameter of Screw ..... 2 inches
Height over all ..... 23 inches
Lifting capacity ..... 25 tons
Price each ..... $ 2.79

HOUSE RAISING JACKS.

No. 4-A-435. Cast Iron—Brand New.

These Screws are cast with Seamless Threads, which makes them very smooth and uniform.

Diam. of Screw Inches	Height Over All Inches	Price Each
3	18	$1.55
3	20	1.65
3	22	1.85
3	24	1.95
3	26	2.15
3	28	2.25
3	30	2.35
3	32	2.45
3	34	2.55
3	36	2.70

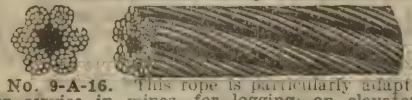
BARGAINS IN SECOND HAND SELECTED MANILA AND WIRE ROPE.

We are constantly securing Manila and wire rope in our dismantling operations that are in good condition. This rope is carefully selected, and any that we ship we will guarantee to be thoroughly practical for further use.

We offer this second hand rope subject to stock on hand at time of receiving order. In sending us your order, it is advisable to state whether or not it will be satisfactory that we furnish new rope, providing we have not second hand rope in stock.

SECOND HAND CRUCIBLE STEEL WIRE ROPE.

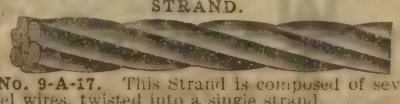
Nineteen Wires to the Strand. Six Strands, Laid Around Hemp Center.



No. 9-A-16. This rope is particularly adapted for service in mines, for logging, on elevators, derricks, hay presses and hoists of all kinds.

Diam. Inches	Weight per ft. in pounds	Price per ft. Selected Second Hand Rope
¼	0.10	$0.02½
⅜	0.22	.03
½	0.39	.03½
⅝	0.62	.04
¾	0.89	.06
⅞	1.20	.07
1	1.58	.08
1⅛	2.45	.10

SECOND HAND GALVANIZED WIRE STRAND.



No. 9-A-17. This Strand is composed of seven steel wires, twisted into a single strand.

For Smoke Stack Guys, Electric Light Plants, Street Railways, Signal Cord, Fencing, etc.

Approx. Diam. In	Price per 100 ft.
⅜	$0.50
½	.75

SECOND HAND GALVANIZED IRON WIRE ROPE.

For Derrick Guys, etc.

No. 9-A-18. Not suitable to be run over drums or pulleys.

Composed of six strands and hemp center, seven wires to the strand.

Approximate Diam. Inches	Approximate Weight per ft.	Second Hand Price per ft.
½	0.36	$0.02½
⅝	0.64	.03
¾	0.81	.03½
⅞	1.21	.04
1	1.44	.05

SECOND HAND WIRE ROPE.

No. 9-A-19. 15,000 feet of ⅝ inch Crucible Steel Wire Rope, composed of six strands, 19 wires to the strand. This rope comes in short lengths, ranging from 30 to 150 feet. It is in good, fair second hand condition, but is too short to splice profitably.

It is suitable for logging, hoisting and for almost any purpose for which wire rope is generally used.

We offer it at this special price only in lengths as we may have in stock.

Price per foot $0.2½

No. 9-A-20. 30,000 feet of ⅝ inch second hand Wire Rope, composed of six strands, 19 wires to the strand in lengths ranging from 30 to 100 feet. This rope is somewhat worn, having here and there a broken wire. It is not recommended for hoisting, but can be used for many other purposes such as logging, fencing, etc.

This rope we offer in such lengths as we have in our stock.

Price per foot $0.01½

No. 9-A-21. 20,000 feet of ¾ inch Crucible Steel Wire Cable, composed of six strands, 19 wires to the strand. Is in good second hand condition, but in view of the fact it is in short lengths, ranging from 30 to 125 feet we offer it at special price only in such lengths as we have in our stock.

Price per foot $0.03½

No. 9-A-30. 15,000 feet of ¾ inch Second Hand Cable, composed of six strands, 19 wires to the strand, in lengths ranging from 30 to 100 feet. This Cable is somewhat worn, having here and there a broken wire. It is not recommended for hoisting, but can be used for many other purposes, such as logging, fencing, etc.

This cable we offer in such lengths as we have in our stock.

Price per foot $0.02

No. 9-A-31. 85,000 feet of 1¼ inch Second Hand Crucible Steel Cable, composed of six strands, 19 wires to the strand. This cable is in good second hand condition and runs in lengths up to 1,000 feet.

Price per foot in lengths $0.09

No. 9-A-32. 35,000 feet of 1⅛ inch Crucible Steel Wire Hoisting Rope in excellent second hand condition. This cable comes in long lengths, ranging from 300 to 2,000 feet. It was previously used on the Chicago City Railway Company's system and was secured by us in connection with our outright purchase of their entire cable plant.

Price per foot $0.10

SECOND HAND MANILA ROPE.

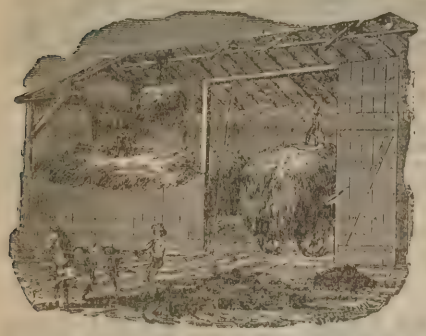
No. 9-A-33. Carefully selected and in good second hand condition. We generally have on hand a fair range of lengths in the sizes offered. However, we offer this rope subject to stock on hand at time of receiving order, and in sending in your order it is advisable to state whether or not it will be satisfactory that we furnish new rope should we not have the second hand material at that time.

Diam. Inches.	Price per ft.	Diam. Inches	Price per ft.
¾	$0.01½	1½	$0.04
⅞	.02½	1½	.04½
1	.03	1½	.06½

No. 9-A-34. 2,000 feet of 2½ inch second hand Manila rope, very best quality in fine condition, strictly pure, long fibre.

It is rope we purchased brand new to be used in a heavy wrecking operation by us. Was only on one job and is in excellent condition. We offer it at 14 cents per foot.

HAY CARRIER OUTFITS



For the convenience of our customers we offer our Hay Carrier Outfits complete. These outfits are such as our experience has taught us to be best adapted for barns of various lengths. Compare our assortment with others and you will find that we furnish a more complete outfit than any other on the market.

The Carriers are extra heavy and have no springs to get out of adjustment and will therefore last for years; in fact, they are practically indestructible. The track is a double steel angle and is furnished in 10 foot lengths. With each outfit we furnish two 5 foot pieces so the joints will not come at the same place, making a stronger and more rigid track than if the lengths were all 10 foot.

The rope is the best quality long fibre pure manila. We wish to call your particular attention to the fact that we furnish longer lengths than usually supplied with Hay Carrier Outfits.

The outfits as described will meet any requirements in barns of the various lengths specified. To save any delay, we strongly advise ordering any of the assortments just as described; however, if changes must be made be sure and allow sufficient amount to cover any extras and thereby avoid any delay which will be caused through the necessity of writing you regarding such changes.

The Hay Rope furnished is ¾ inch diameter. This size is most generally used. ⅞ inch or 1 inch rope can be used and for which there will be an extra charge as follows:

For ⅞ inch rope. Price, per foot, extra..... $0.01
For 1 inch rope. Price, per foot, extra..... .02

STEEL TRACK OUTFITS COMPLETE.

No. 4-A-647. For 30 foot barn consisting of: 1 double swivel Hay Carrier, 30 feet double steel angle track with couplings and bolts, 16 rafter brackets, 16 hanging hooks, 4 floor hooks, 1 short time double harpoon Hay Fork, 3 steel yoke knot passing pulleys, 100 feet ¾ inch manila hay rope, 40 feet ⅜ inch manila trip rope. Price..... $10.85

No. 4-A-648. For 35 foot barn consisting of: 1 double swivel Hay Carrier, 35 feet double steel angle track with couplings and bolts, 18 rafter brackets, 18 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 110 feet ¾ inch manila hay rope, 45 feet ⅜ inch manila trip rope, 3 steel yoke knot passing pulleys. Price..... $11.70

No. 4-A-649. For 40 foot barn consisting of: 1 double swivel Hay Carrier, 40 feet double steel angle track with couplings and bolts, 21 rafter brackets, 21 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 120 feet ¾ inch manila hay rope, 50 feet ⅜ inch manila trip rope. Price..... $12.65

No. 4-A-650. For 45 foot barn consisting of: 1 double swivel Hay Carrier, 45 feet double steel angle track with couplings and bolts, 23 rafter brackets, 23 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 130 feet ¾ inch manila hay rope, 55 feet ⅜ inch manila trip rope. Price..... $13.50

No. 4-A-651. For 50 foot barn consisting of: 1 double swivel Hay Carrier, 50 feet double steel angle track with couplings and bolts, 20 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 140 feet ¾ inch manila hay rope, 55 feet ⅜ inch manila trip rope. Price..... $14.00

No. 4-A-652. For 55 foot barn consisting of: 1 double swivel Hay Carrier, 55 feet double steel angle track with couplings and bolts, 27 rafter brackets, 27 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 150 feet ¾ inch manila hay rope, 60 feet ⅜ inch manila trip rope. Price..... $15.25

No. 4-A-653. For 60 foot barn consisting of: 1 double swivel Hay Carrier, 60 feet double steel angle track with couplings and bolts, 31 rafter brackets, 31 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 160 feet ¾ inch manila hay rope, 65 feet ⅜ inch manila trip rope. Price..... $16.35

No. 4-A-654. For 65 foot barn consisting of: 1 double swivel Hay Carrier, 65 feet double steel angle track with couplings and bolts, 33 rafter brackets, 33 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 170 feet ¾ inch manila hay rope, 70 feet ⅜ inch manila trip rope. Price..... $17.35

No. 4-A-655. For 70 foot barn consisting of: 1 double swivel Hay Carrier, 70 feet double steel angle track with couplings and bolts, 36 rafter brackets, 36 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 190 feet ¾ inch manila hay rope, 80 feet ⅜ inch manila trip rope. Price..... $18.90

WOOD TRACK OUTFITS.

(Complete Except Track.)

No. 4-A-656. For 35 foot barn consisting of: One double swivel Hay Carrier, 14 rafter brackets, 14 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 110 feet ¾ inch manila hay rope, 45 feet ⅜ inch manila trip rope. Price..... $8.95

No. 4-A-657. For 40 foot barn consisting of: 1 double swivel Hay Carrier, 16 rafter brackets, 16 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 120 feet ¾ inch manila hay rope, 50 feet ⅜ inch manila trip rope. Price..... $8.35

No. 4-A-658. For 50 foot barn consisting of: 1 double swivel Hay Carrier, 20 rafter brackets, 20 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 140 feet ¾ inch manila hay rope, 55 feet ⅜ inch manila trip rope. Price..... $9.55

No. 4-A-659. For 55 foot barn consisting of: 1 double swivel Hay Carrier, 22 rafter brackets, 22 hanging hooks, 4 floor yoke knot passing pulleys, 150 feet ¾ inch manila hay rope, 60 feet ⅜ inch manila tripe rope. Price..... $10.15

No. 4-A-660. For 60 foot barn consisting of: 1 double swivel Hay Carrier, 24 rafter brackets, 24 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 160 feet ¾ inch manila hay rope, 65 feet ⅜ inch manila trip rope. Price..... $10.75

No. 4-A-661. For 65 foot barn consisting of: 1 double swivel Hay Carrier, 26 rafter brackets, 26 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 170 feet ¾ inch manila hay rope, 70 feet ⅜ inch manila trip rope. Price..... $11.35

No. 4-A-662. For 70 foot barn consisting of: 1 double swivel Hay Carrier, 28 rafter brackets, 28 hanging hooks, 4 floor hooks, 1 double harpoon short tine Hay Fork, 3 steel yoke knot passing pulleys, 190 feet ¾ inch manila hay rope, 80 feet ⅜ inch manila trip rope. Price..... $11.95

WIRE CABLE BARN OUTFITS.

No. 4-A-665. For 30 foot barn consisting of: 1 reversible cable carrier, 30 feet ½ inch galvanized wire cable, 2 eye bolts, 2 cable clamps, 1 center support, 3 steel yoke knot passing pulleys, 4 floor hooks, 1 double harpoon short tine Hay Fork, 100 feet ¾ inch manila hay rope, 40 feet ⅜ inch manila trip rope. Price..... $7.95

No. 4-A-666. For 40 foot barn consisting of: 1 reversible cable carrier, 40 feet ½ inch galvanized wire cable, 2 eye bolts, 2 cable clamps, 1 center support, 3 steel yoke knot passing pulleys, 4 floor hooks, 1 double harpoon short tine Hay Fork, 110 feet ¾ inch manila hay rope, 45 feet ⅜ inch manila trip rope. Price..... $8.90

No. 4-A-667. For 50 foot barn consisting of: 1 reversible cable carrier, 50 foot ½ inch galvanized wire cable, 2 eye bolts, 2 cable clamps, 1 center support, 3 steel yoke knot passing pulleys, 4 floor hooks, 1 double harpoon short tine Hay Fork, 120 feet ¾ inch manila hay rope, 50 feet ⅜ inch manila trip rope. Price..... $9.45

No. 4-A-668. For 60 foot barn consisting of: 1 reversible cable carrier, 60 feet galvanized wire cable, 2 eye bolts, 2 cable clamps, 1 center support, 3 steel yoke knot passing pulleys, 4 floor hooks, 1 double harpoon short tine Hay Fork, 130 feet ¾ inch manila hay rope, 60 feet ⅜ inch manila trip rope. Price..... $10.85

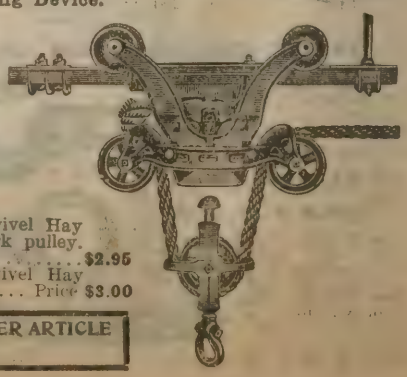
WIRE CABLE FIELD STACKING OUTFITS.

No. 4-A-664. For 50 foot Field stacking outfits consisting of: 1 reversible cable carrier, 1 double harpoon short tine Hay Fork, 150 feet ½ inch galvanized wire strang, 2 clamps for making loops around end stakes, 2 collars to prevent posts working inward, 2 long bolts for the top of posts, 3 steel yoke knot passing pulleys, 30 feet ¾ inch manila hay rope, 75 feet ⅜ inch manila trip rope. Price..... $11.25

For ⅞ inch instead of ¾ inch manila hay rope, add, per foot extra..... .01
For 1 inch instead of ¾ inch add, per foot..... .02

DOUBLE SWIVEL HAY CARRIERS.
With Improved Locking Device.

Has but two pieces, which makes it an absolutely positive lock. No springs or unnecessary parts to get out of order. Will work either way, by changing pulley from one end of the barn to the other, making it unnecessary to untie the ropes from other pulleys. This simple method is a big feature not generally found in other carriers.



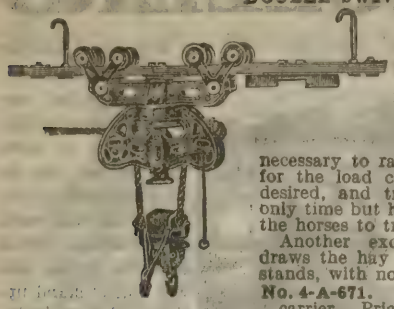
No. 4-A-669. Wood track double swivel Hay Carrier complete with stop and fork pulley. Price..... $2.95

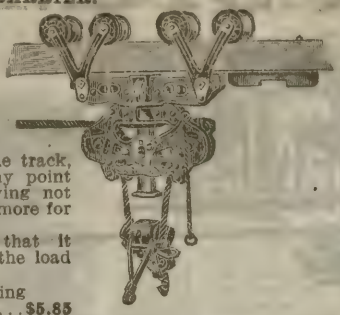
No. 4-A-670. Steel track double swivel Hay Carrier complete with stop and fork pulley ..... Price $3.00

EVEN IF YOU PAY MORE, YOU CANNOT GET A BETTER ARTICLE OF THIS KIND.

Hay Carrier Outfits.

DOUBLE SWIVEL SLING HAY CARRIER.





Made of the best malleable iron, heavy and durable, simple in construction. The special feature of this swivel carrier is that often when the barn is empty it is not necessary to raise a load up to the track, for the load can be raised to any point desired, and tripped, thereby saving not only time but half the distance or more for the horses to travel.

Another excellent feature is that it draws the hay or grain direct as the load stands, with no twist in the rope.

No. 4-A-671. Wood track swivel sling carrier. Price.....$5.85

No. 4-A-673. Steel track swivel sling carrier. Price.....$5.90

SLING PULLEY.

No. 4-A-671. Can be used in connection with our Double Swivel Hay Carrier. The simplest and strongest sling pulley ever offered. It has no springs, and regardless of how large or how small the load of hay is in the wagon sling, it will lock at any place.

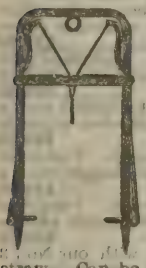
When the knob of the Sling Pulley enters the Hay Carrier, the entire weight of hay is on this knob and throws the lock against the rope between the two pulleys and when the load is dumped and Hay Carrier is returned and strikes the stop block, the knob drops the sling pulley, is unlocked and is ready for another load.

Price.....$1.45

SINGLE HARPOON HAY FORKS.

No. 4-A-674. Regulation size, made of best materials. Price, each.....$1.35

DOUBLE HARPOON HAY FORKS.



No. 4-A-675. Short tine, Double Harpoon Hay Fork, 25 inch tine, 16 inches between points. Made of best quality material. Price, each.....$0.85

No. 4-A-676. Long tine, Double Harpoon Hay Fork, tines 30 inches long, 16 inches between points. Price, each.....$0.95

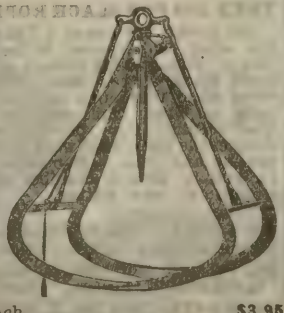
No. 4-A-677. Double Harpoon Hay Fork, 34 inch tines, 22 inches between points. Designed for handling alfalfa and straw. Can be used, however, for handling any kind of hay. Price, each.....$1.80

HAY GRAPPLE FORKS.

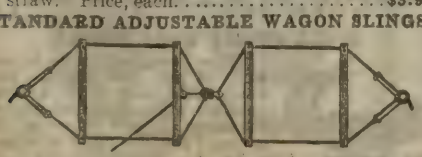
The best and strongest Grapple Forks manufactured.

No. 4-A-678. 4 tine Grapple Fork for regular work. Price, each.....$3.30

No. 4-A-697. 6 tine Grapple Fork for short hay, loose straw. Price, each.....$3.95



STANDARD ADJUSTABLE WAGON SLINGS.

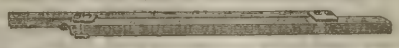


Made for an 18 inch wagon rack. They can be made shorter for any size wagon by drawing the ropes through the wood bars and tying another knot on each side of wood bars. There is a center trip on all slings and they are fitted with the best and simplest lock.

An outfit generally consists of one sling pulley and three wagon slings, so as to take off an entire load in three lots. The trip rope is of proper length, permiting the sling to be easily tripped. Sling pulleys or sling carriers must be used with wagon slings.

No. 4-A-680. Length, 4 foot. Price, each..$1.45
No. 4-A-681. Length, 5 foot. Price, each..1.80
No. 4-A-682. Length, 6 foot. Price, each..1.95

DOUBLE ANGLE STEEL TRACK.



No. 4-A-683. Made only in five and ten foot lengths. Furnished complete with couplings and bolts. Two end bumpers are furnished with track when 30 feet or more are ordered. Price, per foot.....$0.08½

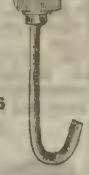
GALVANIZED HAY CARRIER CABLE.

No. 4-A-684. ½ inch diameter, composed of wires. Price, per foot.....$0.02
No. 4-A-685. Clamps for cable Hay carriers. Price, each.....$ .07
No. 4-A-686. Collars for Cable Hay carriers. Price, each.....$ .14

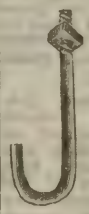
ROPE HITCH WITH SWIVEL HOOK.

No. 4-A-687. Made of malleable iron. Will take rope up to 1 inch. Saves cutting or tying the rope. Price, each.....$0.12

STEEL TRACK HANGING HOOKS.



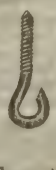
No. 4-A-688. For double steel angle track. Price, each.....$0.06



WOOD TRACK HANGING HOOKS.

No. 4-A-689. 14 inches along the bend. Price, each.....$0.05

FLOOR HOOKS.



No. 4-A-690. Used to screw to floor to hold pulleys. Diameter, ¾ inch. Price, each.....$0.05

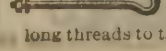
JOINED HANGING HOOKS.

No. 4-A-691. Used for hanging wood track to beams without using rafter brackets. Price, each.....$0.08

RAFTER BRACKETS.

No. 4-A-692. For Hay carrier track. Price, each.....$0.02

EYE BOLTS.



No. 4-A-693. For fastening Hay Carrier Cable to end of barn. Has long threads to take up slack. Price, each...$0.22

SNATCH PULLEY BLOCK.

No. 4-A-694. To shorten travel of horse without reducing the power. Horse travels only half the distance hay is carried. Frame is made of malleable iron with iron sheave. For use with manila rope only. Price, each.....$0.55

IRON YOKE HAY FORK PULLEY.

No. 4-A-695. With loose hollow pin, hard maple sheave, 5½ inch. Price, each.....$0.16

WOOD FRAME HAY FORK PULLEY.

(Self Oiling.)

No. 4-A-696. Frame and sheave are made of the best hard maple, fitted with wrought iron yoke, malleable iron eye and swivel springs—the most durable hay fork pulley manufactured. Price, each.....$0.21

STEEL YOKE KNOT PASSING PULLEY.

No. 4-A-697. With maple sheave, 5½ inch diameter. Price, each.....$0.18

ADJUSTABLE CATTLE STANCHIONS.

The only stanchion on the market that allows the animal an easy and natural position at all times. Can be immediately adjusted, setting the upright bars 5½, 6, 7 and 8 feet apart. Easily locked and only the attendant can open it and release the animal. This is done by merely lifting a steel lock that connects the pivoted bar.

The illustration on the right shows a Stanchion in place locked. The one at the left shows the Stanchion open, held firmly in position by steel guide straps. It is impossible for the animal to turn it and no trouble is experienced by the animal putting its head in the Stanchion.

Made of best quality of hardwood, nicely finished. Height, 4 foot with 6½ inch space between upright bars, and can be adjusted very easily by taking out a bolt which makes the spaces 5½ inches, so that it can be used for young stock. The wider spaces are suitable for cattle of any size. The Stanchions are shipped set up for 6½ inches between bars. Top and bottom are made of malleable iron and it is the strongest and lightest Stanchion on the market, weighing about 15 pounds each. Sold only in lots of 6 or more.

Shipped from factory Southern Wisconsin.

No. 4-A-698. Price, for six.....$5.75

PREMIER STUMP PULLERS

The most powerful and efficient Stump Puller manufactured. A special drum is used which preserves the rope and increases the power and speed of the machine. Can be moved and set in five minutes time.

Will aways hold all cable gathered on spool, whether machine is in gear or not. It can do as much work in one day as 15 men could do by hand. It will work on hill sides as well as on level ground and will always stand upright and swing in line with stump to be pulled.

The Premier Stump Puller is the very latest style of Groove Drum type of machine, carrying the very latest improvements both in construction and labor saving features. A mere glance at its construction will show the wonderful simplicity and superior design which together with the extremely high quality of all materials used in their making, prove them positively the best and most successful Stump Puller in the world and the lowest priced high grade machine sold today.

THE MAIN FRAME is constructed on new lines, giving it the rigid, strong and solid qualities lacking in other machines of this type. The heavy anchor hook provided here is meant to prevent the machine from tipping and there is positively no chance of its ever breaking.

THE DRUM is of large diameter and grooved so that the rope winds from bottom to top.

THE SAFETY RATCHET is made to hold every inch your team can pull. The rope used on this machine is the best ENGLISH STEEL ROPE made, and has done much to place this machine in popular favor.

THE SWEEP CAP is of the very latest design and made especially strong for this machine.

THE SWEEP LIFT is made of a steel angle bar working in an eccentric is a feature not contained in other machines.

Our ropes which are made of the best English Steel are fitted with properly fitting hooks and couplers that add to the life of the rope. While we list our machines with pulling rope 50 to 75 feet in length, we can furnish them in any desired length. When ordering extra rope you must allow extra price for same, as well as extra price for the fittings. We make no charge for placing the fittings on the rope.

OUR GUARANTEE:—We guarantee this machine for one year and will replace all defective parts during that time. We also guarantee the cable for the same length of time and will replace any cable that breaks providing it is not broken by misuse.

WE ALLOW TEN DAYS TRIAL:—This machine can be returned to us any time within ten days after it has been received, provided it is found not to be as represented or if it fails to do the work specified. In this event we will refund the amount paid for the machine and freight charges.

SPECIAL NOTICE:—We furnish our Premier Stump Puller with English Steel Cable only, for the reason that the special steel cables do not give satisfaction.

Our No. 6 Machine is suited for the very heaviest work and we would say in this regard that the larger the machine, the better it will perform the same work that a smaller machine will perform. With this advantage, it will do more work, doing it easier and assure greater economy in the cost of clearing land.

We advise prospective purchasers to buy a larger machine than the size his timber calls for to enable him to clear his land not only with the least cost, but he will make up more than the difference in the cost of the machine in the clearing of a few acres.

DOUBLE POWER PULLEYS.

In specifying the strain in which our machines are guaranteed to stand, we desire to be plainly understood that capacity given is when a Double Power Pulley is used, prices quoted on the machines do not include Double Power Pulleys. These Pulleys are not only meant for increasing the power of the machine but for making the work easier. In fact, this is the principle function of the Pulley.

No. 4-A-629. No. 1 Machine is suited for trees and stumps up to 6 inches through. For use by hand or for one horse on an 8 foot sweep. Furnished with a six foot anchor loop and 50 feet of ⅝ inch English Steel Pulling Cable. Guaranteed to stand a strain of 45,000 pounds when a double power pulley is used. Weight, 300 lbs. Price.....$17.25

No. 4-A-630. No. 2 Machine is suited for trees and stumps up to 12 inches through. For use with one horse on a 10 foot sweep. Furnished with an 8 foot anchor loop and 50 feet of ¾ inch English Steel Pulling Cable. Guaranteed to stand a strain of 70,000 lbs. where a double power pulley is used. Weight, 400 lbs. Price.....$24.50

No. 4-A-631. No. 3 Machine is suited for trees and stumps up to 18 inches through. For use with two horses on a 12 foot sweep. Furnished with a 10 foot anchor loop and 50 feet of ⅞ inch highest grade English Steel Pulling Cable. Guaranteed to stand a strain of 100,000 pounds when a double power pulley is used. Weight, 600 lbs. Price.....$34.50

No. 4-A-632. No. 4 Machine is suited for trees and stumps up to 24 inches through. For use with two horses on a 14 foot sweep. Furnished with a 12 foot anchor loop and 75 feet of ⅞ inch highest grade English Steel Pulling Cable. Guaranteed to stand a strain of 140,000 pounds when a double power pulley is used. Weight, 900 lbs. Price.....$49.75

No. 4-A-633. No. 5 Machine is suited for trees and stumps up to 36 inches through. For use with two horses on a 16 foot sweep. Furnished with a 12 foot anchor loop and 75 feet of 1 inch highest grade English Steel Pulling Cable. Guaranteed to stand a strain of 180,000 pounds when a double power pulley is used. Weight, 1,000 lbs. Price.....$62.50

No. 4-A-634. No. 6 Machine is suited for the very heaviest work. For use with two horses on an 18 foot sweep. If used with our No. 3 Double Power Pulley, double the power can be obtained. We recommend this particular machine to our customers who have a great amount of work to do, even though their timber is of medium size, as the great power of the machine makes it possible to pull medium sized timber without the use of a Double Power Pulley. Is furnished complete with 12 foot anchor loop and 75 feet of 1-inch pull rope. Shipping weight, about 1,000 lbs. Price.....$83.6

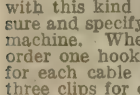
ENGLISH STEEL STUMP PULLER CABLE.

For Stump Pulling purposes we recommend and guarantee only English Steel Cable. The pulling capacity of this cable is much greater than any other cable manufactured, and it has been found by much experience that it is the only cable to be used for this purpose. Our Stump Pulling machines are fitted exclusively with this kind of cable. When ordering cable, be sure and specify the same size as supplied with the machine. When ordering extra cable, always order one hook for each extra cable and two clips for each cable ⅞ inch or smaller in diameter, and three clips for cable 1 inch in diameter.

No. 4-A-635. English Steel Cable.

Diameter, inches...	⅝	¾	⅞	1	1¼
Price, per foot.....	$0.20	$0.27	$0.32	$0.45	$0.52

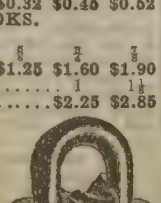
WIRE ROPE HOOKS.



No. 4-A-636.

Size.....	⅝	¾	⅞
Price, each...	$1.25	$1.60	$1.90
Size.....	1	1¼	
Price, each.....	$2.25	$2.85	

WIRE ROPE CLIPS.



No. 4-A-637.

Size.....	⅝	¾	⅞
Price each...	$0.12	$0.14	$0.16
Size.....	1	1¼	
Price, each.....	$0.19	$0.21	

DOUBLE POWER PULLEYS.

These pulleys decrease the strain on the rope and increase the power of the machine. They can also be used for trees away from the machine. The block is hitched to the tree or stump to be pulled; a hitch rope being provided for that purpose. A pull rope is run through the sheave back to the machine, which it can be made fast to the frame or the platform.

This pulley is made with solid steel clevises and pins and chilled centered sheave and is recommended for use wherever the work is more than one foot through.

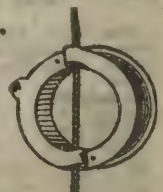
The pulley is made in three sizes.

No. 4-A-638. Size No. 1, to be used with Nos. 1 and 2 Stump Pullers, complete with 10 feet ¾ inch hitch rope. Weight, 50 lbs. Price.....$5.25

No. 4-A-639 Size No 2, to be used with Nos. 3 and 4 Stump Pullers, complete with 12 feet 1 inch hitch rope. Weight, 60 lbs. Price.....$6.00

No. 4-A-640. Size No. 3, to be used with Nos. 5 and 6 Stump Pullers, complete with 15 feet 1¼ inch hitch rope. Weight, 70 lbs. Price.....$6.75

TAKE UPS FOR SLACK ROPE.



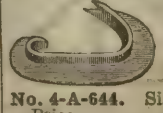
We advise the use of a Take Up when cable is over 50 feet long or when pulling stumps on short hitch, as you should not wind more than one layer of cable on drum while working. The Take Up practically doubles the amount of work you can do and makes it possible to pull a greater number of stumps at one sitting.

No. 4-A-641. Size No. 1, suitable for Nos. 1, 2 and 3 Stump Pullers. Price.....$3.00

No. 4-A-642. Size No. 2, suitable for Nos. 4 and 5 Stump Pullers. Price.....4.00

No. 4-A-643. Size No. 3, suitable for No. 6 Stump Puller. Price.....5.00

STEEL STUMP ROOT HOOKS.



These hooks are made of cast steel to pull low stumps that have rotted down to the ground, or other work of similar nature, to which a pull rope of the Stump Puller cannot be attached.

No. 4-A-644. Size No. 1. Weight, 25 lbs. Price.....$2.35

No. 4-A-645. Size No. 2. Weight, 40 lbs. Price.....3.75

No. 4-A-646. Size No. 3. Weight, 70 lbs. Price.....6.00

BLACKSMITH'S PORTABLE FORGES

CYCLONE PORTABLE FORGE, $4.25

Notwithstanding the extremely low price which we put on this forge, it is very strong and durable. These qualities have not been sacrificed on account of the price. It is neat and symmetrical in design and the legs are made of ¾ inch pipe, firmly screwed into the hearth, and are tied together with wrought iron bands to insure rigidity when in action.

The leg construction is the best on the market. The lever operates a segment gear on a ratchet which permits the reverse motion while the drive wheel on the same shaft revolves rapidly.

A leather belt connects the drive wheel, with the blower fan. The result is a strong, lasting blast, produced with very little energy. Will fully meet the demands of farmers and are suitable for all kinds of light repair work.

Dimensions:

Height of forge, 30 inches.
Diameter of hearth, 18 inches.
Depth of fire pan, 3½ inch.
Diameter of fan case, 8 inches.
Weight about 85 pounds.

No. 4-A-448. Price with shield as shown in illustration.....$4.25

No. 4-A-449. This forge is the same in all respects as the one described above, excepting that it is provided with a ½ inch hood for smoke pipe connection instead of a shield for outdoor work, as shown in illustration. Weight about 90 lbs. Price.....$5.00

POSITIVE BLAST FORGE, $8.25

Light running, positive and economical.

The design and construction of this forge is on mechanical and symmetrical lines, resulting in a strong, light running, economical tool.

The legs are of pipe, giving strength and symmetry. They are firmly screwed into the hearth, and are tied together in a manner to prevent their wabbling.

The lever, supported on a swivel, follows the motion of the arm while in use.

The Clutch is of a special design that insures positive action. The boxes are provided with oil cups and the shafts are correctly fitted into the bearings, and if these parts are properly lubricated, they will last a life time. The oil cups are dust proof and self closing.

The shaft that attains speed (the fan shaft), is provided with ball bearings which lighten the draft and save wear. The fire place is separate from the hearth, which saves breakage, expansion and shrinkage of these parts.

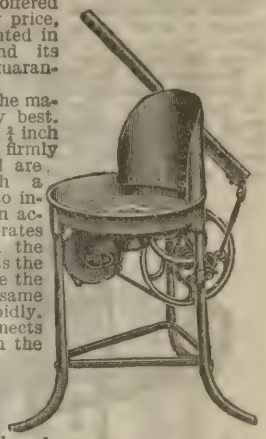
We recommend this forge for repair men, quarry men, boiler makers, bridge builders, in mines, on farms and other places where light and medium smithing is done.

Dimensions:

Height of forge, 30 inches.
Diameter of hearth, 22 inches.
Size of fan, 9 inches.
Weight about 135 pounds.

No. 4-A-451. Price complete with hood as shown in illustration.....$8.25
No. 4-A-452. Price with shield..... 7.25

TORNADO UTILITY FORGE, $5.00



While this forge is offered at an extremely low price, it has not been slighted in its construction and its durability is fully guaranteed.

Construction: The material is of the very best. The legs are made of ¾ inch pipe which screw firmly into the hearth and are tied together with a wrought iron band to insure rigidity when in action. The lever operates a segment gear on the ratchet which permits the reverse motion, while the drive wheel on the same shaft revolves rapidly. A leather belt connects the drive wheel with the blower fan.

Particular attention is called to the size of the hearth, which is 22 inches diameter and 3½ inches deep.

This is an extremely popular forge, owing to the unusual size of the hearth. We recommend this forge for all kinds of light repair work.

Dimensions:

Height of forge, 30 in.; Dia. of hearth, 22 in.; Depth of fire pan, 3½ in.; Dia. of fan case, 8 in.; Weight about 95 lbs.

No. 4-A-450. Price.....$5.00

PERFECTION FORGE, $11.50

We wish to call your particular attention to the construction of this forge. Note how the legs are braced, which is absolutely necessary in the construction of a forge of this size. We wish further to call your attention to the size of the fan, which will produce a greater volume of air, and make it possible to bring the work to a proper heat in less time than you can with other forges of similar construction.

In offering this forge at the price we do, we have kept in mind the necessity of strength, size of fan, and all other good points that are necessary to produce a forge that will meet with the requirements of horseshoers, bridge builders, boiler makers and for general smithing.

This forge is large and roomy and has a strong blast. The clutch is of special design and is positive in action, and economical in point of service and wear. The legs are of wrought iron, held in sockets which are bolted to the hearth. The legs are braced by heavy iron rods running diagonally from front to rear. These rods are held rigid at the point where they cross by clamp.

The lever support is a swivel, which permits the lever to follow the action of the arm while in use.

The boxes are provided with oil cups and the shafts are carefully fitted into bearings. If these parts are properly lubricated they will last a life time. The oil cups are dust proof and self-closing.

The shaft that attains the speed (the fan shaft) is provided with ball bearings, which lightens the draft and saves wear.

The fire place is separate from the hearth which saves breakage and expansion and shrinkage of these parts.

These forges are suitable for almost any kind of smithing.

Dimensions:

Height of forge, 30 in.; Size of hearth, 24x35½ in. Dia. of fan, 12 in.; Weight about 210 lbs.

No. 4-A-454. Price with hood as shown in illustration.....$11.50
No. 4-A-455. Price with shield..... 10.75

"Premier" Blacksmith's Forge,

The King of Lever Forges, Dust Proof, Self-Closing Oil Cups, Ball-Bearing Fan Shaft

$16.50

This is the King of all lever forges, and is of new design. Instead of having a small coal box built in the end of hood, the bottom is made straight and the sides are of increased height, which provides ample room for a good supply of coal. The bottom being straight, the coal is easily drawn into the fire by means of a rake or shovel. There is also ample room for tools and material.

The lever support is a swivel which permits the lever to follow the action of the arms while in use.

The good features of this forge are the boxes that are provided with dust proof, self-closing oil cups; the ball bearing, high speed fan shaft which lightens the draft and saves wear; a fire place which is separate from hearth, thus avoiding bad results due to expansion and shrinkage of these parts.

The design of this forge is symmetrical throughout and is also practical. It is very substantial, and is adapted to all kinds of smithing from heating iron 3 inches diameter to a welding heat.

Dimensions:

Height of forge, 30 inches.
Size of hearth, 29½x46½ inches.
Diameter of fan, 15 inches.
Weight 330 pounds.

No. 4-A-456. Price with hood as shown in illustration $16.50
No. 4-A-457. Price with water tank, weight about 375 lbs.....$18.50

BLACKSMITH'S FAVORITE FORGE $18.00

This forge is designed for the heaviest blacksmiths' and carriage builders' work. The hearth is deep. The sides are lowered almost to a level with the tuyere for long shafts or forgings, working with a small fire. They will produce a steady, powerful blast.

This style of forge is much superior to the bricked in forge, has a geared hand blower. The blast is strong and is blown direct into the tuyere. There are no belts, ratchets or noisy clutches.

We guarantee this forge to produce a hotter fire in less time than any other forge of similar type on the market. The fan (in the fan case) is large, being 12 inches in diameter. Both the blower and fan being specially designed, make this the best geared hand blower forge on the market. All material and workmanship are of the very best.

This forge is built without coal box, giving the operator the full size of the hearth for his tools and material. Furnished fitted with a water tank (as shown in illustration), which can be used as a coal box if desired.

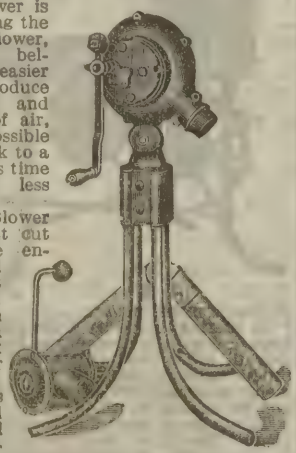
Dimensions:

Height, 30 in.; Size of hearth, 31x53 in.; Diameter of fan, 12 in., Weight about 290 lbs.

No. 4-A-459. Price with water tank as shown..... $18.00

CYCLONE BLOWER $11.00

The crank blower is rapidly superseding the old style lever blower, and blacksmiths bellows. They are easier to operate and produce a more steady and greater volume of air, thus making it possible to bring your work to a proper heat in less time and with much less labor.



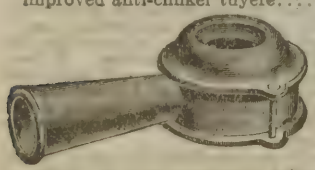
Our Cyclone Blower is made with flat cut gears which are encased in an oil tight and dust proof gear case. The gears run in a continuous bath of oil. The crank turns forward or backward.

This blower gives a good blast and meets the general demand of blacksmiths who prefer to build their own forge.

Dimensions:

Height, 45 in.; Dia. of fan case, 12 in.; Dia. of fan, 9¾ in.; Weight crated about 115 lbs.

No. 4-A-460. Price complete with piping and improved anti-clinker tuyere..... $11.00



DUCK NEST TUYERE IRON.

No. 4-A-464. Made of best quality gray iron. Weight 12 lbs. Price ...$0.43

CLARK TUYERE IRON.

Made of best quality of gray iron, with dump and shaker.

No. 4-A-465. Medium size weight 22½ lbs. Price $0.99

No. 4-A-466. Large size, weight 27 lbs. Price $1.15

CONTRACTOR'S STEEL FORGE $13.50

This forge is especially designed for contractors, boiler makers, bridge builders and for any and every purpose where a portable forge is required for outdoor work. Being entirely of steel, they are stronger and lighter than the cast iron forge and are more nearly indestructible. They can readily be taken apart and set up. With the improved type of fan they will produce a very powerful blast. We wish to call your particular attention to the diameter of the fan, which is 12 inches, being larger than is generally used and will therefore produce a proper heat in much less time.

Dimensions:

Height, 32 inches.
Diameter of hearth, 18 inches.
Diameter of fan, 12 inches.
Weight about 100 pounds.

No. 4-A-458. Price.....$13.50

WHIRLWIND BLAST FORGE $12.00

No. 4-A-453. Made of steel, and is very much the best lever Hand Blower on the market; the fan is extra large and will furnish a greater blast than any other blower of similar type, thereby bringing your work to a welding heat in a less time. It runs noiseless, all shafts are of steel, with long, heavy, journals.

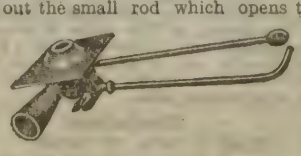
Dimensions:

Height 44 inches.
Diameter of fan, 17 inches.
Weight, 140 lbs.

Price, complete with tuyere and pipe.....$12.00

NORTON'S ADJUSTABLE BLAST TUYERE IRON.

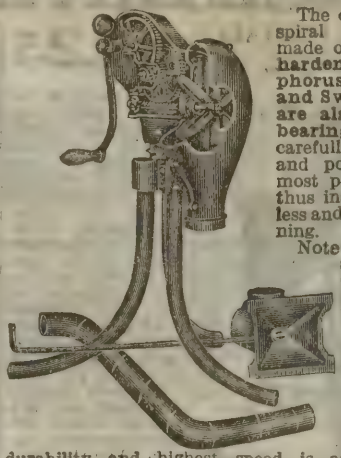
No. 4-A-467. Regulated by turning the large rod. The cinders and ashes may be removed by drawing out the small rod which opens the slide.



The levers and spring are readily changed to either side for right or left hand use. Weight about 27 pounds.

Price $1.17

Ball Bearing Spiral Geared Blower $14.95



The cut spur and spiral gearing are made of the **finest hardened phosphorus bronze and Swiss steel as are also the ball bearings.** They are carefully ground and polished to a most perfect finish, thus insuring noiseless and smooth running.

Note the construction of these gears is such that eight full teeth of the spiral gear continuously mesh into eight full teeth of the spur, so that strength durability and highest speed is assured. The perfect ball bearings and oiling arrangements absolutely prevent wear and friction.

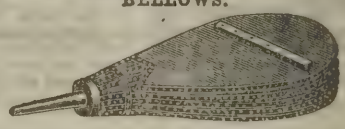
We guarantee that this blower will produce a more powerful blast than any other hand blower on the market, and is equally strong when the handle is turned in either direction. We guarantee a white heat blast nearly equal to the best power blast.

The height of crank is adjustable from 41 to 45 inches. Is equipped with center and side blast. Deep fire tuyere blower. Size 7½x9x4 inches. Has 13 inch fan case.

Shipping weight 135 pounds.

No. 4-A-461. Price complete with tuyere as shown.....$14.95

BELLOWS.



We guarantee that the leather used in the construction of our bellows is the best cowhide employed for this purpose, and that it is properly hooped to the wood, preventing the nails from pulling through. The wood is kiln dried which prevents cracking. Guaranteed fully in every respect.

STANDARD PATTERN.
No. 4-A-462.

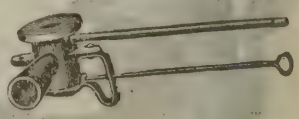
Width Inches	Wt. lbs.	Price	Width Inches	Wt. lbs.	Price
24	30	$ 3.75	34	60	$ 6.00
26	35	4.19	36	68	6.80
28	40	4.56	38	78	7.55
30	45	4.93	40	100	8.70
32	50	5.30	42	125	11.25

EXTRA LONG PATTERN.
No. 4-A-463.

Width Inches	Wt. lbs.	Price	Width Inches	Wt. lbs.	Price
34	73	$ 7.20	38	105	$ 9.10
36	87	7.95	40	125	10.60

WARREN'S PATENT TUYERE IRON.

No. 4-A-468. Very simple and easily adjusted. Blast is regulated by simply revolving the ball, which has three unequal sides.



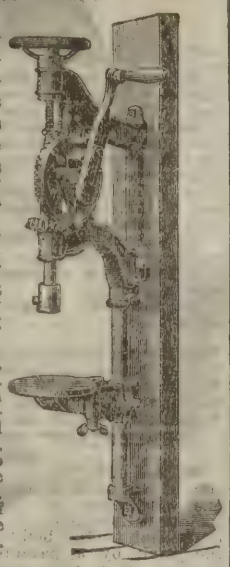
Open the bottom valve and all cinders and ashes drop out. Weight about 31 pounds.

Price $1.45

If You Contemplate Building a Home Send for Our Free Plan Offer and Building Plan Book. . . .

Blacksmiths' Post-Drills

BLACKSMITHS' SINGLE GEARED HAND FEED POST DRILL



A Substantial Drill—Rigid, powerful and durable. Simple in construction. We guarantee this drill will do equally as good work as any of the higher priced drills, and is an indestructible tool. For use on farms and in small shops.

Height 36 ins. Upright column 1⅞ ins. diameter. Gear wheel 6½ ins. diameter. Table 6 ins. diameter. The greatest distance of spindle to table 10½ ins. Drills ¾ in. holes to center of a 12 in. circle.

The drill spindle is 1 in. steel and bored for ½ in. round shank drills. Feed has a run of 3 ins. Upright column and feed screw are of special steel. Crank is adjustable to long or short turn. The drill table can be raised, lowered or swung out of the way so fork can be used to hold wheels. Weight about 60 lbs.

No. 4-A-28. Price $3.50

"PREMIER" BALL BEARING GEARED SELF FEED BLACKSMITHS' POST DRILL

These drills are specially designed and are heavier in construction than any other similar type of drill that is offered. They have no light or intricate parts which are liable to break or get out of order.

All bearings are ground out of solid metal to a working fit, just like the bearings of high priced drills. The automatic feeding device is new and simple, yet efficient and positive. It is located back in the spindle and is worked by a cam on the inside of the main gear wheel. This cam is constructed so as to give nearly a continuous feed. By this arrangement the drill does not jam into the work, which is frequently the case in the use of hand drills. This point alone makes a great saving in drill bits—also the nice alignment of the lower column with the spindle, and the fact that the drill table is exactly at right angles with the spindle makes the drill turn free and easy.

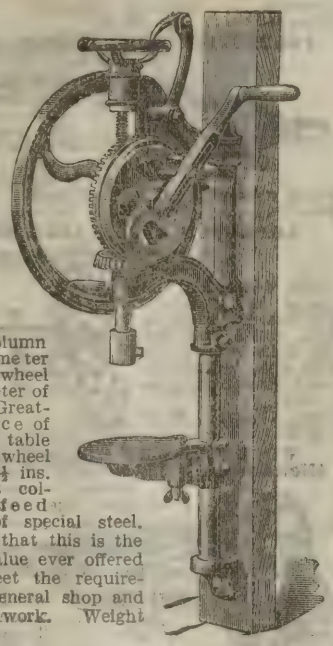
The drills have two speeds—for light and heavy work. The change is made instantly by simply changing the handle from one shaft to the other.

The ball bearings are made of case hardened special steel and are absolutely true. They are fitted in the head piece of spindle and serve to reduce the friction and increase the efficiency and life of the machine.

Dimensions: Total height 45 ins. Diameter of table 8 ins. Diameter drive gear wheel 6 ins. Fly wheel 14 ins. Spindle 1 in. Run of spindle 3 ins. Size of column 1 9-16 ins. Greatest distance of spindle to table 14½ ins. Spindle turns 1½ times on one turn of crank on fast speed. Crank turns 1½ times to one turn of spindle on slow speed. Drills up to 1½ in. holes to center of 15 in. circle. Spindle is bored for ½ in. round shank drills. Weight 125 lbs.

No. 4-A-33. Price.....$7.00

DOUBLE GEARED SELF FEED POST DRILL



Has an extension crank and adjustable feed. Drills ¾ in. to center of 12 in. circle. Drill spindle is 1 in. steel and is bored for ½ in. round shank drills. Feed has a run of 3 ins. Total height is 37 inches. Diameter upright column 1⅞ ins. Diameter drive gear wheel 8 ins. Diameter of table 6 ins. Greatest distance of spindle to table 10½ ins. Fly wheel diameter 14½ ins. The upright column and feed screw are of special steel.

We claim that this is the best drill value ever offered and will meet the requirements for general shop and blacksmith work. Weight 80 lbs.

No. 4-A-29. Price.....$5.25

"ADVANCE" VARIABLE SELF FEED BLACKSMITHS' POST DRILL

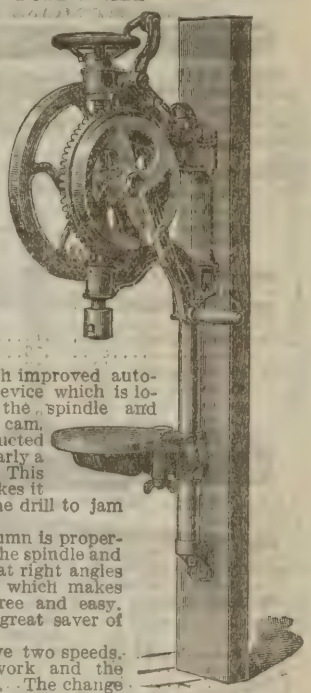
For belt and hand power with tight and loose pulleys and fly wheel.

This drill is especially adapted for heavy work. It drills 1¼ in. holes to center of 18 in. circle and is used in blacksmith shops, by boiler makers and bridge builders. It is equipped with special automatic feeding device which is located back of spindle and is worked by a cam on the inside of main gear wheel. This cam is constructed so as to give nearly a continuous feed. They are made for heavy service, and the simplicity and small number of parts recommend it.

Dimensions: Drill is 50 ins. high. Table 11 ins. diameter. Diameter of gear wheel 8 ins. Diameter of fly wheel 16 ins. Diameter of spindle 1¾ ins. Run of spindle 3 ins. Size of column 2 ins. Greatest distance of spindle to table 16½ ins. Spindle turns 1½ times to one turn of crank on fast speed. Crank turns 1½ times to one turn of spindle on slow speed. Drills up to 1¼ in. holes to center of 18 in. circle. Spindle is bored for ½ in. round shank drills. Weight 190 lbs.

No. 4-A-34. Price.....$15.00

"PERFECTION" SELF FEED BLACKSMITHS' POST DRILL



This drill is especially constructed to meet the requirements in shops where heavy work is performed. This drill will do more work than any hand power post drill of a similar type on the market. All bearings are ground out of solid metal to a working fit, the same as bearings on higher priced drills.

It is fitted with improved automatic feeding device which is located back in the spindle and worked by a cam, which is constructed so as to give nearly a continuous feed. This arrangement makes it impossible for the drill to jam into the work.

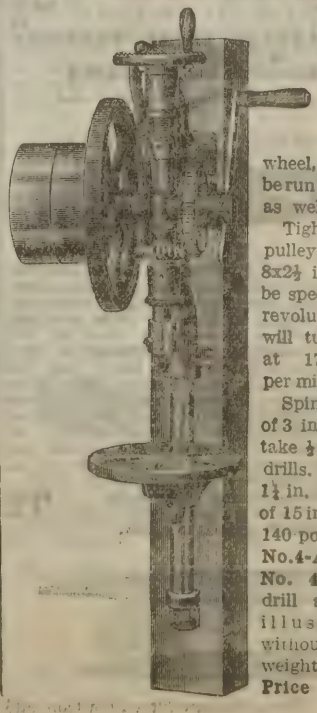
The lower column is properly aligned with the spindle and the drill table is at right angles with the spindle, which makes the drill turn free and easy. This feature is a great saver of drill bits.

The drills have two speeds. One for light work and the other for heavy. The change can be made instantly by merely changing the handle from one shaft to the other. The table can be raised or lowered, turned to side or removed if desired, and the fork used as a wheel holder.

Dimensions: Diameter of spindle 1 9-16 ins. Greatest distance of spindle to table 14½ ins. Run of spindle 3 ins. Spindle bored for ½ in. round shank drills. Drills 1¼ in. holes to center of 15 in. circle. Weight 125 lbs.

No. 4-A-30. Price.....$6.35

"PERFECTION" BLACKSMITHS' COMBINED POWER AND HAND DRILL



This makes a first-class equipment for shops that are equipped with power, this drill being fitted with fly wheel, and crank can be run by hand equally as well as by power.

Tight and loose pulleys measure 8x2½ ins. and should be speeded about 250 revolutions, which will turn the spindle at 170 revolutions per minute.

Spindle has a run of 3 ins. and bored to take ½ in. round shank drills. Drills up to 1¼ in. holes to center of 15 in. circle. Weight 140 pounds.

No. 4-A-31 Price $9.00

No. 4-A-32. Same drill as shown in illustration but without fly wheel, weight about 125 lbs.

Price $8.25

POST DRILL CHUCKS.

These chucks are made of ½ inch straight shank and will fit any of our post drills. Straight shank drills are to be used in connection with these chucks.

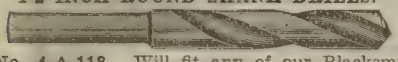
	Price
No. 4-A-120. Holds drill ⅜ in. and smaller	$1.60
No. 4-A-121. Holds drill ½ in.	2.15

STRAIGHT SHANK DRILLS.

No. 4-A-119. These drills are made of the very finest quality of tool steel, each drill guaranteed. To be used in connection with drill chuck. Made for round shank drills. The twist and shank are of the same size.

Size Inches	Length Inches	Price Each	Price per doz.
1/16	2½	$0.03	$ 0.30
1/8	2¾	.04	.37
3/16	3	.04	.41
1/4	3¼	.06	.55
5/16	3½	.07	.67
3/8	3¾	.08	.80
7/16	4	.09	.95
1/2	4¼	.11	1.12
9/16	4½	.12	1.28
5/8	4¾	.14	1.45
11/16	5	.16	1.66
3/4	5¼	.17	1.86
13/16	5½	.20	2.08
7/8	5¾	.22	2.24
1	6	.23	2.45

1-2 INCH ROUND SHANK DRILLS.



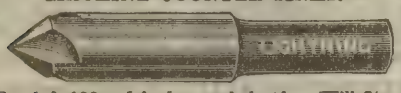
No. 4-A-118. Will fit any of our Blacksmith Post Drills.

They are made of the very best grade of steel and carefully tempered. Will drill more holes than any other drill of its kind on the market.

Every one is absolutely true to gauge and fully guaranteed in every particular.

Size Inches	Price Each	Size Inches	Price Each
1/16	$0.13	5/16	$0.34
3/32	.15	11/32	.37
1/8	.18	3/8	.38
5/32	.21	13/32	.43
3/16	.24	7/16	.46
7/32	.26	15/32	.51
1/4	.27	1	.57
9/32	.29		

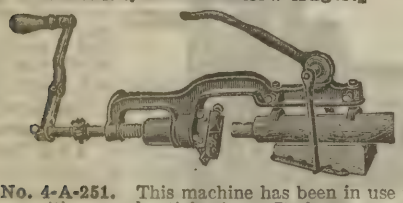
MACHINE COUNTER SINKS.



No. 4-A-122. ½ inch round shank. Will fit any of our post drills.

Size ¾ in. Price $0.30
Size 1 in. Price ..... .44

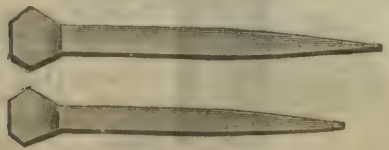
PEACE'S IMPROVED SPOKE TENONING MACHINE.
With Adjustable Hollow Auger.



No. 4-A-251. This machine has been in use for years with general satisfaction. Its low cost compared with other tenoning machines brings it within the use of all; in fact, no other machine used by woodworkers gives more value for the money. Every machine is warranted to give satisfaction. The auger head is heavy and the knife starts on the plain end of spoke and centers perfectly. The auger is kept going by the force of the spring. It is adapted to any size spoke or dish of wheel and is readily applied without removing the wheel from where the spokes are driven. It may be clamped on spoke in an instant's time. Cuts every tenon perfectly true.

Price without felloe boring attachment $8.25
Price with felloe boring attachment 3.85

HORSE SHOE NAILS.



No. 4-A-96. These nails are forged hot from end of rod. Every nail is uniform and perfect. They drive better, clinch better and hold shoes on longer than any other nail on the market. No acid used in polishing. Come in boxes of 25 lbs.

Size No. 5 6 7 8 9 10 11 12
Price, per box $2.15

ADJUSTABLE SPOKE POINTERS.

No. 4-A-111. Made with a graduated square adjustable shank. The cutter is of high grade tool steel. Points up to 1⅛ inches in diameter.

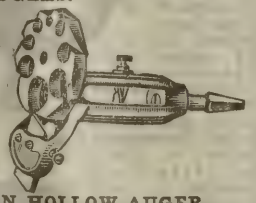
Price each $0.35

PERFECTION ADJUSTABLE HOLLOW AUGER.

No. 4-A-112. Comes in size tenon from ¼ to 1½ inch. Fitted with pivoted jaws with graduated scale by which the size of tenon is regulated. A movable stop is operated on graduated scale with rulings to 1/16 inch.

Price $1.75

IMPROVED ADJUSTABLE HOLLOW AUGERS.

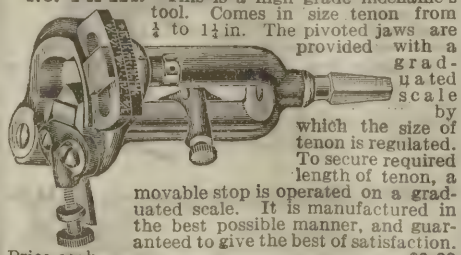


No. 4-A-113. The barrel is japanned. The shank is made of cold rolled steel and the knife is of special tool steel. Comes in eight sizes from ⅜ to 1 inch.

Price $0.45

WOOD PATTERN HOLLOW AUGER.

No. 4-A-114. This is a high grade mechanic's tool. Comes in size tenon from ¼ to 1¼ in. The pivoted jaws are provided with a graduated scale by which the size of tenon is regulated. To secure required length of tenon, a movable stop is operated on a graduated scale. It is manufactured in the best possible manner, and guaranteed to give the best of satisfaction.



Price each $2.80

IMPROVED MOLE TIRE SHRINKER.
(Without anti-kinking device).

These machines are made of the very best material and are guaranteed fully in every particular. They are easily operated by one man. It is not necessary to remove tire until it is upset as required. Each machine is furnished with an iron lever handle.

No. 4-A-97. Size, No. 1. Capacity, up to 2½ in. tires. Price, each $4.95

No. 4-A-98. Size, No. 2. Capacity up to 3 in. tires. Price each $7.00

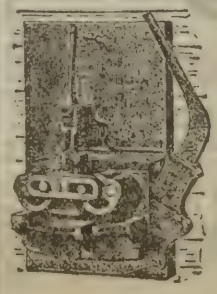
No. 4-A-99. Size, No. 3. Capacity, up to 4 in. tires. Price each $10.00

IMPROVED MOLE TIRE SHRINKER.
(With anti-kinking device).

No. 4-A-100. Size, No. 2. Capacity, up to 3 in. tires Price each $8.75

No. 4-A-101. Size, No. 3. Capacity, up to 4 in. tires. Price each $10.80

STODDARD TIRE SHRINKER.



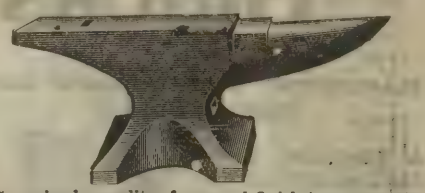
The Stoddard Tire, Shrinker has been on the market for many years and it is superior to all others. The dogs which grip the tire are faced with tool steel plates. These hold the tire perfectly without slipping, wear a long time and can be re-sharpened by the user and finally replaced at a small expense. They are held to the eccentric dogs by means of screws.

No. 4-A-102. Size No. 1. Shrinks up to 2 in. tires. Weight, 100 lbs. Price, each $5.65

No. 4-A-103. Size, No. 2. Shrinks up to 4 in. tires. Weight, 230 lbs. Price each $9.00

No. 4-A-104. Size, No. 3. Shrinks up to 4 in. tires and has extra jaws of setting axles up to 1¾ in. Weight about 300 lbs. Price each $11.20

"PREMIER" WROUGHT IRON ANVILS.



Superior in quality, form and finish to any on the market. Every anvil sold by us is fully guaranteed. They are intended for hard service.

Made of the very best grade of American wrought iron faced with crucible cast steel. Top and bottom are each of one solid piece, and welded at the waist by improved method. The steel faces are one solid piece. The face is planed after the anvil is finished, and is therefore smooth. Has wood base, long horn and heel.

We guarantee that should these anvils break at waist, or the steel face become loose within one year from date of purchase it will be replaced without charge.

No. 4-A-115. Weight, 150 to 200 lbs. Price per lb 7c

	Per lb.
Weight from 120 to 145 lbs.	9c
Weight from 80 to 119 lbs	9½c
Weight from 70 to 79 lbs	10½c
Weight from 60 to 69 lbs	11c
Weight from 50 to 59 lbs	12½c

"PERFECTION" STEEL FACED CAST ANVILS.

No. 4-A-117. The face of this anvil is one solid piece of tool steel thoroughly welded to the body of the anvil by a patented process. It is then accurately ground and tempered.

The horn is covered with steel, and its extremity is made entirely of tough, untempered steel. The body of the anvil is made from superior pig iron. The face and the horn are warranted to be welded thoroughly to the body and not to separate.

They are designed to give first class service, but will not stand the hard wear as will a wrought iron anvil.

Weight lbs.	Price	Weight lbs.	Price
20	$2.50	70	$4.95
30	2.85	80	5.50
40	3.40	100	6.60
50	3.90	120	7.80
60	4.40		

PERFECTION GEARED TIRE BENDER.

All journals in these machines are provided with steel roller bearings, which makes them very easy running. The rolls are provided with steel roller bearings, perfectly round and true, which insures good work.

No. 4-A-105. Size No. 2. Will bend 3½ in. tire or smaller to a circle, or 24 inches in diameter or larger. Price, with crank $5.50

No. 4-A-106. Size, No. 2½. Will bend 4½ in. tire, or smaller, to a circle 24 inches in diameter or larger. Price, with crank $5.50

No. 4-A-107. Size No. 2½. Will bend 6 in. tires or smaller to circle 24 inches in diameter or larger. Price with crank $6.00

PREMIER DOUBLE GEARED TIRE BENDER.

This machine is made with turn rollers and bearings and is a first-class tool in every particular and will answer the requirements of most shops.

No. 4-A-108. Size, No. 2. Will bend 3½ inch tire or smaller to circle 24 inches in diameter or larger. Price $4.50

No. 4-A-109. Size, No. 2½. Will bend 2½ inch tire, or smaller to circle 24 inches in diameter or larger. Price $5.00

No. 4-A-110. Size, No. 2½. Will bend 6 inch tire, or smaller to circle of 24 inches in diameter or larger. Price $5.25

Blacksmith Tools.

Made of the very best quality of crucible steel properly tempered. Each tool guaranteed to be first class and satisfactory in every respect.

HARDIES.

No. 4-A-1025.

Size of Shank	Weight Lbs.	Price Each
½	¼	$0.07
⅝	½	.10
¾	1	.13
⅞	1¼	.15
1	1½	.18

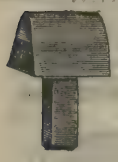
TOP FULLERS.

No. 4-A-1026. Without Handles

Size Inches	Weight Lbs.	Price Each
½	2	$0.26
⅝	2½	.30
½	2½	.31
⅝	2½	.32
¾	2¾	.37
⅞	3	.40
1	3¼	.41
1¼	3½	.42
1½	3½	.45

BOTTOM FULLERS.

No. 4-A-1027.



Size Inches	Weight Lbs.	Price Each
½	2	$0.26
⅝	2½	.30
½	2½	.31
⅝	2½	.32
¾	2¾	.35
⅞	3	.39
1	3¼	.41
1¼	3½	.42
1½	3½	.45

SQUARE FLATTERS.

Without Handles

No. 4-A-1028.

Size Inches	Weight Lbs.	Price Each
2	2½	$0.29
2½	2½	.33
2½	3½	.45
2¾	4	.50
3	5	.60

TOP SWAGES.

No. 4-A-1029.

Size Inches	Weight Lbs.	Price Each
½	1½	$0.23
⅝	2½	.26
½	2¾	.27
¾	3	.32
⅞	3	.33
1	3½	.34
1¼	4½	.35
1½	4½	.44

BOTTOM SWAGES.

No. 4-A-1030.

Size Inches	Weight Lbs.	Price Each
½	2½	$0.26
⅝	2½	.27
½	2½	.28
¾	2¾	.29
⅞	3½	.33
1	2¼	.35
1¼	3	.36
1½	3½	.42

COLD CUTTERS.

Without Handles

No. 4-A-1031. Cuts 1⅜ in.; weight 2¼ lbs. Price..... $0.26

HOT CUTTERS.

Without Handles

No. 4-A-1032. Cuts 1⅜ in.; weight 2¼ lbs. Price, $0.27

COLD CHISELS.

Made of high grade octagon tool steel of the best quality and properly tempered. Each tool guaranteed.

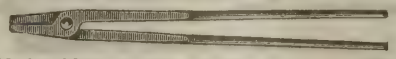
No. 4A1033

Size Inches	Price Each
⅜	$0.10
½	.13
¾	.22
1	.36

STEEL GAD TONGS.

Made of drop forge steel.
No. 4-A-1034. Length 18 in. Price..... $0.23

STRAIGHT LIPPED TONGS.



Made of best quality drop forge steel.
No. 4-A-1035. Length 20 in. Price..... $0.25
No. 4-A-1036. Length 22 in. Price..... .26

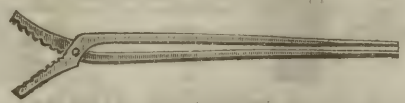
BOLT TONGS.

Made of best quality drop forge steel. In ordering state for what size bolts tongs are wanted.
No. 4-A-1037. Length 20 in., for bolts ¼, 5-16, ⅜ or ½ in. Price..... $0.24
No. 4-A-1038. For bolts ⅝ or ¾ in. Price..... .36
No. 4-A-1039. For bolts ⅞ or 1 in. Price..... .42

FARRIERS' TONGS.

Made of best quality drop forge steel.
No. 4-A-1040. Length 14 in. Price..... $0.21

CLINCH TONGS.

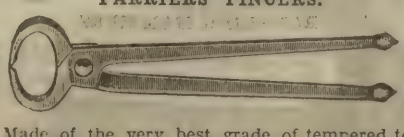


Made of best quality crucible tool steel. Used for turning the clinch instead of using hammer. Useful on colts and nervous horses.
No. 4-A-1041. Price..... $0.95

BLACKSMITHS' PINCERS.

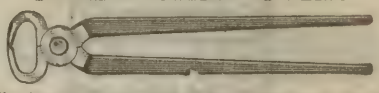
Made of a good grade of steel.
No. 4-A-1042. Length 14 in. Price..... $0.40

FARRIERS' PINCERS.



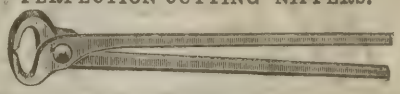
Made of the very best grade of tempered tool steel. Each pair fully warranted.
No. 4-A-1046. Length 14 in. Price..... $0.75
No. 4-A-1047. Length 16 in. Price..... 1.05

PREMIER CUTTING NIPPERS.



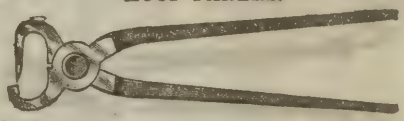
The best cutting nipper manufactured; made of the best quality steel and nicely finished. The best for horse shoers.
No. 4-A-1044. Length 12 in. Price..... $0.90
No. 4-A-1045. Length 14 in. Price..... 1.10

PERFECTION CUTTING NIPPERS.



Made of good quality tool steel. For cutting nails, hoofs, etc.
No. 4-A-1043. Length 14 in. Price..... $0.53

HOOF PARERS.



Made of best quality of steel properly tempered. Each tool fully warranted.
No. 4-A-1048. Length 12 in. Price..... $0.89
No. 4-A-1049. Length 14 in. Price..... 1.09

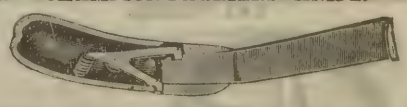
GIANT HOOF CUTTER.

This tool makes a straight cut into the hoof Jaws open 1¼ in. with handle movement of 5½ in. only. Can be operated with one hand. It cuts readily at first, slowing and giving more leverage as the hard shell of the hoof is reached. Is simple in construction, having but four parts, all of which are interchangeable.
No. 4-A-1050. Price..... $1.50

PERFECTION FARRIERS' KNIFE.

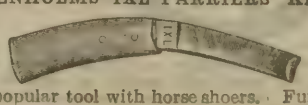
Blades made of the best steel properly tempered and can be instantly changed.
No. 4-A-1051. Price complete..... $0.32
No. 4-A-1052. Price handles only..... .13
No. 4-A-1053. Price blades each..... .19

CHAMPION FARRIERS' KNIFE.

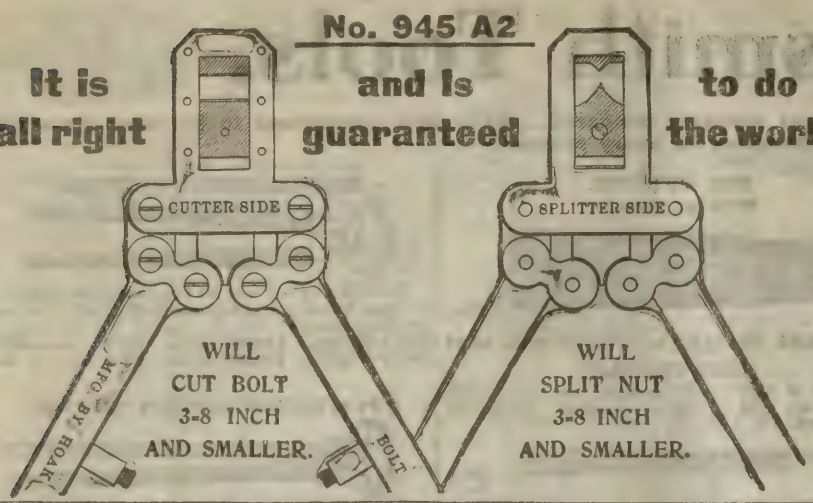


With interchangeable blades. This knife has three first class blades, all different shapes, made of best English cast steel, highly tempered to hold a good and lasting edge.
No. 4-A-1054. Price per set..... $0.74

WOSTENHOLMS' IXL FARRIERS' KNIFE



Very popular tool with horse shoers. Furnished with stag handle.
No. 4-A-1055. Price..... $ 0.33



Combined Bolt and Nut Splitter

Two tools combined. Will cut bolts ⅜" and smaller. Will split nuts on bolts ⅜" and smaller. You can split a nut as quickly as you can cut a bolt, without injury to wood work and no skinned knuckles.

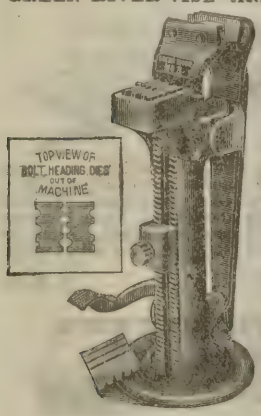
No. 4-A-396. Price.....**$1.00**

BOLT CLIPPER.

Jaws are made of solid steel specially tempered and can be adjusted to take up the work of the joints and cutting edges. Are fitted with rubber bumpers between handles. Every tool fully warranted.

No. 4-A-396½. Size No. 0. Will cut bolts up to and including 1/16". Length, 18". Price.....**$1.45**
No. 4-A-397. Size No. 1. Will cut bolts up to and including ¼". Length, 24". Price.....**$1.95**
No. 4-A-398. Size No. 2. Will cut bolts up to and including ½". Length, 30". Price.....**$2.65**
No. 4-A-399. Size No. 3. Will cut bolts up to and including ⅝". Length, 36". Price.....**$3.58**

GREEN RIVER VISE AND BOLT HEADER.



The vise which drops open when not in use, forms both sharp and straight calks without changing the die, the forming die being made of tool steel of proper shape.

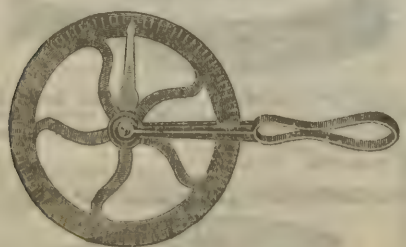
The vise is not interfered with in any way by the bolt heading attachment. The swaging plate for sharp calks is furnished with a number of grooves for large and small calks. It may be placed so that the groove will run either way as may be preferred. The treadle is at the most convenient place—at the side. Bolt heading dies are dropped in place or removed instantly without any trouble. They are set firmly by a driving taper key which is always in place.

Sizes of bolt heading dies.....¼, ⅜, ½, 7/16, ⅝, ¾

Complete for shoeing or bolt heading.

No. 4-A-400. Price.....**$10.75**

GREEN RIVER GRADUATED TIRE MEASURE WHEEL.



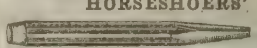
The figures and lines are raised above the surface of the wheel and cannot be filled or defaced by rust or dirt. A perfect running wheel, 24" in circumference. The index hands save trouble of marking with chalk. Accurately fitted, handy and strong. **No. 4-A-401.** Price.....**$1.50**

SELF HEATING OIL TROUGH.

In the base of this heater there is a holder containing mineral wool which can be saturated with gasoline or coal oil. Will heat the trough above, enabling you to oil wheels with boiling oil. Suitable for wheels with tires up to 4" wide.

No. 4-A-402. Price.....**$0.96**

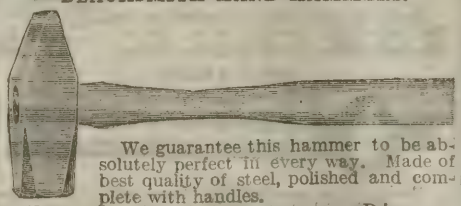
HORSESHOERS' PRITCHEL.



Made of ⅝" octagon tool steel oil finished.

No. 4-A-403. Price.....**$0.23**

BLACKSMITH HAND HAMMERS.



We guarantee this hammer to be absolutely perfect in every way. Made of best quality of steel, polished and complete with handles.

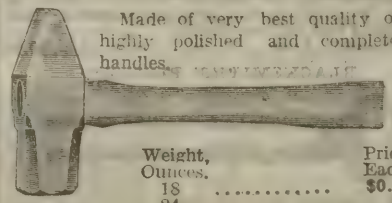
No.	Weight, lbs.	Price, Each.
4-A-404.	2	$0.46
	2½	.49
	3	.53
	3½	.57

RIVETING HAMMERS.

Made of best quality of steel, highly polished and complete with handles.

No.	Weight, Ounces.	Price, Each.
4-A-405.	7	$0.22
	9	.25
	12	.27
	18	.29

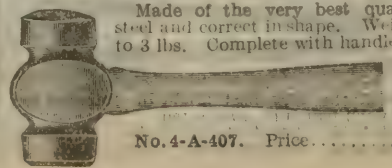
PLOW OR ENGINEERS' HAMMERS.



Made of very best quality of steel highly polished and complete with handles.

No.	Weight, Ounces.	Price, Each.
4-A-406.	18	$0.35
	24	.39
	32	.43
	36	.50

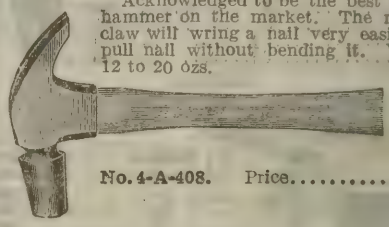
ROUNDING HAMMERS.



Made of the very best quality of steel and correct in shape. Weight, 1¾ to 3 lbs. Complete with handles.

No. 4-A-407. Price.....**$1.00**

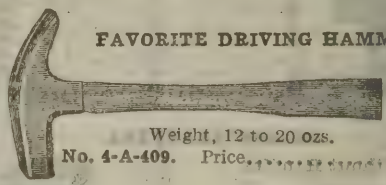
SCOTCH DRIVING HAMMERS.



Acknowledged to be the best driving hammer on the market. The rounded claw will wring a nail very easily, also pull nail without bending it. Weight, 12 to 20 ozs.

No. 4-A-408. Price.....**$0.60**

FAVORITE DRIVING HAMMER.



Weight, 12 to 20 ozs.

No. 4-A-409. Price.....**$0.50**

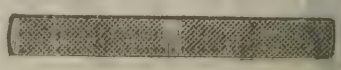
ROUND END PUNCH.

No. 4-A-410.

Made of high grade octagon tool steel. Length, 10".

Size of Point, Inch.	Size of Steel Shank.	Price Each.
¼	¼	$0.11
⅜	⅜	.12
½	½	.13

PERFECTION HORSE RASPS.



No. 4-A-411.

Made of high grade, carefully tempered crucible steel. Each rasp fully guaranteed.

Size, inches	12	14	16
Price, each	$0.19	$0.24	$0.32

PERFECTION SLIM HORSE RASPS.

No. 4-A-412.

Made of the very best quality crucible steel. Each tool guaranteed.

Size, inches	16	18
Price, each	$0.32	$0.38

HORSESHOERS' BUFFER.

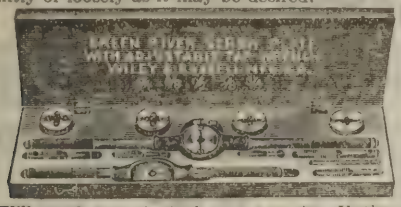
For cutting off or driving nails out of hoof.

No. 4-A-413. Price.....**$0.25**

SCREW PLATES, STOCKS AND DIES

GREEN RIVER SCREW PLATES.

The quality of Green River Screw Plates both as to material and workmanship is of the highest standard, and its simplicity and durability with its moderate price make it particularly attractive. It does its work with a single cut. The die is adjustable for work and to make bolts or nuts fit tightly or loosely as it may be desired.



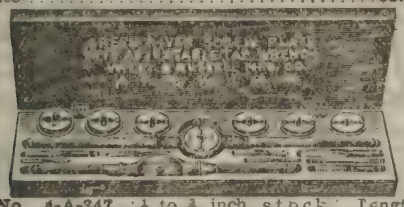
Will send sets $\frac{1}{64}$ inch over size V thread, unless otherwise ordered. This thread fits standard carriage and machine bolts.

No. 4-A-345. $\frac{1}{4}$ to $\frac{3}{4}$ inch stock. Length, 22 inches. Five sizes:

$\frac{1}{4}$x20 Threads	$\frac{5}{16}$x12 Threads
$\frac{3}{8}$x16 Threads	$\frac{7}{16}$x11 Threads
	$\frac{1}{2}$x10 Threads

Taps, dies and guide complete in hardwood case without tap wrench.
Price $7.19

No. 4-A-346. Same as above with tap wrench.
Price $8.30

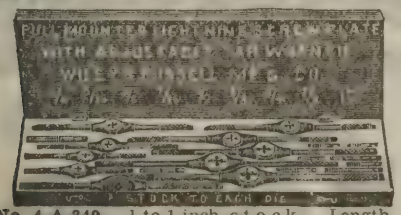


No. 4-A-347. $\frac{1}{4}$ to $\frac{3}{4}$ inch stock. Length, 22 inches. Seven sizes:

$\frac{1}{4}$x20 Threads	$\frac{5}{16}$x14 Threads	$\frac{7}{16}$x11 Threads
$\frac{5}{16}$x18 Threads	$\frac{3}{8}$x12 Threads	$\frac{1}{2}$x10 Threads
$\frac{3}{8}$x16 Threads		

Taps, dies and guide complete in hardwood case without tap wrench.
Price $9.45

No. 4-A-348. Same as above with tap wrench.
Price $10.50



No. 4-A-349. $\frac{1}{4}$ to 1 inch stock. Length, 29 inches. Nine sizes:

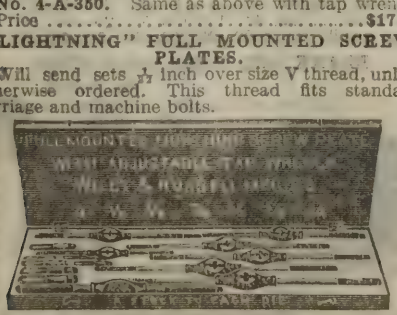
$\frac{1}{4}$x20 Threads	$\frac{5}{16}$x14 Threads	$\frac{7}{16}$x10 Threads
$\frac{5}{16}$x18 Threads	$\frac{3}{8}$x12 Threads	$\frac{1}{2}$x 9 Threads
$\frac{3}{8}$x16 Threads	$\frac{7}{16}$x11 Threads	1x 8 Threads

Taps, dies and guide complete in hardwood case without tap wrench.
Price $16.00

No. 4-A-350. Same as above with tap wrench.
Price $17.75

"LIGHTNING" FULL MOUNTED SCREW PLATES.

Will send sets $\frac{1}{32}$ inch over size V thread, unless otherwise ordered. This thread fits standard carriage and machine bolts.

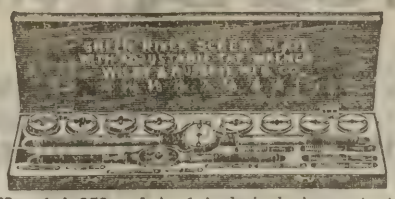


No. 4-A-351. $\frac{1}{4}$ to $\frac{3}{4}$ inch inclusive. A stock with each die. Seven sizes:

$\frac{1}{4}$x20 Threads	$\frac{5}{16}$x24 Threads	$\frac{7}{16}$x11 Threads
$\frac{5}{16}$x18 Threads	$\frac{3}{8}$x12 Threads	$\frac{1}{2}$x10 Threads
$\frac{3}{8}$x16 Threads		

Taps, dies and stock complete in hardwood case without tap wrench.
Price $11.25

No. 4-A-352. Same as above with tap wrench.
Price $12.65



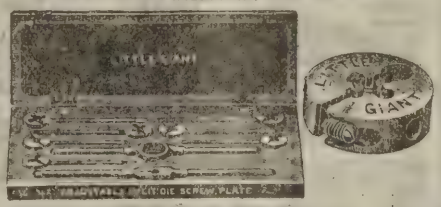
No. 4-A-353. $\frac{1}{4}$ to 1 inch inclusive. A stock with each die. Nine sizes:

$\frac{1}{4}$x20 Threads	$\frac{5}{16}$x14 Threads	$\frac{7}{16}$x10 Threads
$\frac{5}{16}$x18 Threads	$\frac{3}{8}$x12 Threads	$\frac{1}{2}$x 9 Threads
$\frac{3}{8}$x16 Threads	$\frac{7}{16}$x11 Threads	1x 8 Threads

Taps, dies and stock complete in hardwood case without tap wrench.
Price $18.00

No. 4-A-354. Same as above with tap wrench.
Price $19.75

"LITTLE GIANT" SPLIT DIE SCREW PLATES.



Round, adjustable dies $1\frac{7}{16}$ inch diameter, each set complete with an adjustable tap wrench, neatly packed in velvet lined cases.

No. 4-A-335. 5 Taps, 5 Dies, Stock and Adjustable Tap Wrench.
Cutting 4^{32}, 6^{32}, 8^{32}, 10^{24}, 12^{24}. Price....$2.90

No. 4-A-336. 5 Taps, 5 Dies, Stock and Adjustable Tap Wrench.
Cutting $\frac{1}{4}^{40}$, $\frac{5}{16}^{32}$, $\frac{7}{16}^{24}$, $\frac{1}{2}^{24}$, $\frac{1}{2}^{20}$. Price....$2.90

No. 4-A-337. 6 Taps, 6 Dies, Stock and Adjustable Tap Wrench.
Cutting 4^{36}, 6^{32}, 8^{32}, 10^{24}, 12^{24}, 14^{30}. Price.$3.35

No. 4-A-338. 6 Taps, 6 Dies, Stock and Adjustable Tap Wrench.
Cutting $\frac{1}{4}^{40}$, $\frac{5}{16}^{32}$, $\frac{7}{16}^{24}$, $\frac{9}{32}^{24}$, $\frac{1}{2}^{20}$, $\frac{9}{32}^{20}$. Price.$3.35

No. 4-A-339. 7 Taps, 7 Dies, Stock and Adjustable Tap Wrench.
Cutting $\frac{1}{64}^{56}$, $\frac{1}{4}^{40}$, $\frac{9}{64}^{40}$, $\frac{5}{32}^{32}$, $\frac{3}{16}^{24}$, $\frac{7}{32}^{24}$, $\frac{1}{2}^{20}$.
Price $3.90

No. 4-A-340. 10 Taps, 10 Dies, Stock and Adjustable Tap Wrench.
Cutting 2^{56}, 3^{48}, 4^{36}, 5^{36}, 6^{32}, 8^{32}, 10^{24}, 12^{24}, 14^{20}, 16^{18}. Price. $5.10

"LIGHTNING" ADJUSTABLE TAP AND REAMER WRENCH.

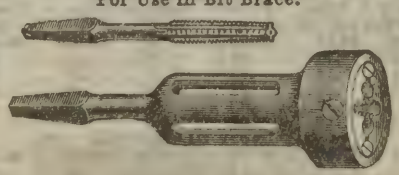
The strongest and most durable tap wrench made. Jaws are of tap steel, closely fitted. Handles of best tubing, capped and knurled. Motion of the jaws is made through differential screws turning one handle. The tap thus firmly gripped will not drop out.

No. 4-A-341. Length 10½ inches for end taps and reamers $\frac{1}{16}$ to $\frac{1}{2}$ inch inclusive. Price ...$1.55

No. 4-A-342. Length 16 inches for end taps, and reamers $\frac{1}{4}$ to $\frac{3}{4}$ inch inclusive. Price....$2.00

No. 4-A-343. Length 21 inches for end taps, and reamers $\frac{1}{4}$ to 1 inch inclusive. Price....$2.50

TAPS, DIES AND HOLDERS. For Use in Bit Brace.



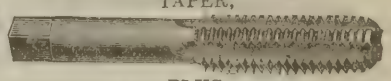
No. 4-A-344. Making perfect threads at a single cut.

Size, inches	$\frac{1}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
Die tap and holder complete	$1.70	1.70	1.75	2.00	2.10
Die only	.90	.90	.90	.90	1.05
Tap only	.45	.45	.50	.56	.63
Holders	60c				

Unless otherwise ordered we will send these taps and dies $\frac{1}{32}$ inch over size V thread.

BLACKSMITHS' PLUG AND TAPER TAPS.

TAPER.



PLUG.

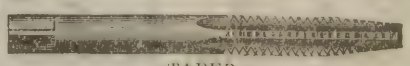
Always give catalog number, size and number of threads when ordering. Made of the best tool steel. Each tool guaranteed.

No. 4-A-355.

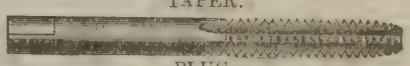
Size Inches	Hand	Number of threads to the inch	Price Each
$\frac{1}{4}$	Right	30-32	$0.11
$\frac{5}{16}$	Right	24-26	.11
$\frac{3}{8}$	Right	18-20-22-24-26	.12
$\frac{5}{16}$	Right	16-18-20-22	.12
$\frac{7}{16}$	Right	12-14-16-18	.13
$\frac{5}{16}$	Left	14	.15
$\frac{5}{16}$	Right	12-14-16-18	.15
$\frac{1}{2}$	Left	14-14	.16
$\frac{1}{2}$	Right	12-14-16-18	.16
$\frac{9}{16}$	Left	12	.19
$\frac{9}{16}$	Right	10-12-14	.19
$\frac{5}{8}$	Left	10-12	.20
$\frac{5}{8}$	Right	10-11-12-14	.20
$\frac{3}{4}$	Left	10-12	.26
$\frac{3}{4}$	Right	8-9-10-12	.26
$\frac{7}{8}$	Left	9	.36
$\frac{7}{8}$	Right	8-9-10	.36
1	Left	8-9	.40
1	Right	7-8-9-10	.49
$1\frac{1}{8}$	Left	8-9	.69
$1\frac{1}{8}$	Right	6-7-8-9	.69
$1\frac{1}{4}$	Left	6-7-8	1.18
$1\frac{1}{4}$	Right	6-7-8	1.19

MACHINISTS' HAND TAPS.

No. 4-A-356. Orders for Hand Taps up to and including $\frac{1}{32}$ will be filled with shanks the full size of threads. Orders for $\frac{3}{8}$ and larger will be filled with shanks the size of bottom of thread. All orders will be filled with V standard threads exact sizes.



TAPER.



PLUG.

BOTTOMING.

Diam. of Taps	Price Each	Price per set of three	Diam. of Taps	Price Each	Price per set of three
$\frac{3}{8}$	$0.14	$0.40	$\frac{5}{8}$	$0.36	$1.00
$\frac{1}{4}$	.18	.50	$\frac{11}{16}$	.42	1.20
$\frac{5}{16}$	.20	.55	$\frac{3}{4}$	.48	1.35
$\frac{3}{8}$	.22	.61	$\frac{13}{16}$	.56	1.60
$\frac{7}{16}$	.24	.67	$\frac{7}{8}$	.64	1.80
$\frac{1}{2}$	.28	.79	$\frac{15}{16}$	.72	2.00
$\frac{9}{16}$	.28	.79	1	.80	2.25
$\frac{5}{8}$	.32	.90			

TAPER REAMERS. For Bit Brace Use.

No. 4-A-357. These reamers are intended to enlarge holes when punching or drilling is not quite perfect. They are made of the finest steel in the most careful manner. The quality and finish will be found very superior. They can be used on hard wood as well as iron. Made $\frac{1}{32}$ inch over size.

Diam. Inches	Price Each	Diam. Inches	Price Each
$\frac{1}{4}$	$0.27	$\frac{11}{16}$	$0.63
$\frac{5}{16}$	.30	$\frac{3}{4}$	.72
$\frac{3}{8}$	.33	$\frac{13}{16}$	.84
$\frac{7}{16}$	.36	$\frac{7}{8}$	.96
$\frac{1}{2}$	.42	$\frac{15}{16}$	1.08
$\frac{9}{16}$	.48	1	1.20
$\frac{5}{8}$	.54		

BOLTS, NUTS, WASHERS.

All Sizes and Kinds. If We do not List what You Require Write Us for Information.

CARRIAGE BOLTS.

No. 4-A-4. These have oval heads, square shoulders, perfect thread, with forged nuts.

3-16 OR 1-4 INCH DIAMETER. 100 BOLTS IN A PACKAGE.

Will sell 50 bolts at one-half 100 price.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1½	$0.24	$0.04	3½	$0.33	$0.06
1¾	.25	.04	4	.36	.07
1¼	.26	.04	4½	.40	.07
2	.27	.05	5	.42	.07
2¼	.28	.05	5½	.45	.07
2½	.29	.05	6	.47	.07
2¾	.30	.06	6½	.56	.08
3	.31	.06	7	.61	.08
3¼	.32	.06	8	.65	.09

5-16 INCH DIAMETER. 100 BOLTS IN A PACKAGE.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1½	$0.30	$0.05	4	$0.44	$0.07
1½	.31	.05	4½	.48	.08
1¾	.32	.05	5	.50	.08
2	.33	.05	5½	.53	.09
2¼	.34	.06	6	.59	.09
2½	.35	.06	6½	.78	.10
2¾	.36	.06	7	.82	.11
3	.38	.06	7½	.86	.12
3¼	.40	.07	8	.90	.13
3½	.41	.07	9	.94	.14
3¾	.42	.07	10	.98	.15

3-8 INCH DIAMETER. 100 BOLTS IN A PACKAGE.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1½	$0.41	$0.07	5	$0.65	$0.11
1½	.43	.07	5½	.67	.11
1¾	.45	.07	6	.72	.12
2	.47	.08	6½	.76	.13
2¼	.49	.08	7	.80	.13
2½	.51	.08	7½	1.12	.15
2¾	.53	.09	8	1.18	.16
3	.55	.09	8½	1.24	.17
3¼	.57	.09	9	1.30	.18
3½	.59	.10	10	1.36	.19
4	.61	.10	11	1.43	.20
4½	.63	.10	12	1.50	.21

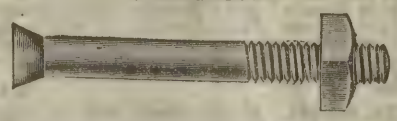
1-2 INCH DIAMETER. 100 BOLTS IN A PACKAGE.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1½	$0.98	$0.13	5	$1.58	$0.22
1½	1.05	.15	5½	1.65	.22
1¾	1.08	.15	6	1.72	.23
2	1.12	.16	6½	1.84	.25
2¼	1.15	.16	7	1.95	.26
2½	1.20	.17	7½	2.08	.27
2¾	1.25	.18	8	2.20	.29
3	1.30	.18	8½	2.33	.31
3¼	1.35	.19	9	2.47	.33
3½	1.40	.20	10	2.63	.34
4	1.45	.20	11	2.77	.36
4½	1.50	.21	12	2.90	.39

1-2 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1½	$1.10	$0.15	6½	$2.15	$0.28
1½	1.18	.16	7	2.30	.29
2	1.25	.17	8	2.45	.33
2¼	1.33	.18	9	2.60	.36
3	1.40	.19	10	2.75	.38
3½	1.50	.20	11	2.90	.41
4	1.60	.21	12	3.05	.45
4½	1.70	.22	13	3.25	.50
5	1.80	.23	14	3.55	.54
5½	1.92	.24	15	3.90	.58
6	2.05	.25			

TIRE BOLTS.



No. 4-A-5. Made of special material. Each bolt perfectly formed and threaded. Each bolt fitted with square nuts.

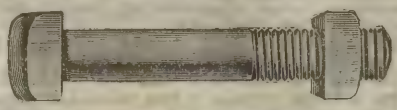
3-16 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Length Inches	Price per 100
1½	$0.14	2½	$0.17
1½	.14	2½	.18
1¾	.15	2¾	.19
2	.16	3	.20

1-4 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Length Inches	Price per 100
1½	$0.21	2¾	$0.25
1½	.21	3	.26
1¾	.21	3½	.27
2	.22	3¾	.29
2¼	.23		

MACHINE BOLTS.



No. 4-A-6. These bolts have square heads and nuts, are made of the very best material and each bolt perfectly threaded and guaranteed.

1-4 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1½	$0.40	$0.05	4½	$0.57	$0.09
1½	.43	.06	5	.60	.09
2	.45	.07	5½	.63	.09
2½	.47	.07	6	.68	.09
3	.49	.07	6½	.74	.10
3½	.50	.08	7	.80	.11
4	.53	.08			

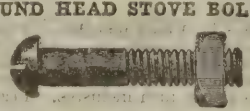
5-16 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1½	$0.49	$0.06	4½	$0.74	$0.10
1½	.52	.07	5	.77	.10
2	.55	.08	5½	.81	.11
2½	.58	.08	6	.85	.12
3	.61	.08	6½	.90	.13
3½	.65	.09	7	.97	.14
4	.69	.10			

3-8 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1½	$0.50	$0.07	4½	$0.97	$0.13
1½	.62	.07	5	1.03	.14
2	.67	.08	5½	1.13	.15
2½	.71	.09	6	1.19	.16
3	.77	.10	6½	1.27	.17
3½	.83	.11	7	1.35	.18
4	.91	.12	8	1.40	.19

ROUND HEAD STOVE BOLTS.



No. 4-A-7.

3-16 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
½	$0.13	$0.03	1½	$0.16	$0.03
⅝	.13	.03	1¼	.17	.03
¾	.14	.03	2	.18	.03
⅞	.15	.03	2½	.19	.04
1	.15	.03	3	.22	.04
1½	.16	.03			

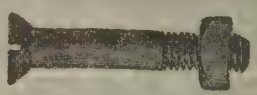
1-4 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
½	$0.17	$0.03	1½	$0.22	$0.04
⅝	.17	.03	1¼	.23	.04
¾	.17	.03	2	.23	.04
⅞	.18	.03	2½	.26	.05
1	.19	.03	3	.29	.05
1½	.20	.04			

5-16 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
½	$0.27	$0.05	1½	$0.32	$0.05
⅝	.28	.05	2	.34	.06
1	.29	.05	2½	.37	.06
1½	.30	.05	3	.42	.07
1½	.31	.05			

FLAT HEAD STOVE BOLTS.



No. 4-A-8.

3-16 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
½	$0.13	$0.03	1½	$0.17	$0.03
⅝	.13	.03	1¾	.18	.03
¾	.13	.03	2	.19	.04
⅞	.14	.03	2½	.20	.04
1	.15	.03	3	.23	.04
1½	.16	.03			

1-4 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
½	$0.17	$0.03	1½	$0.23	$0.03
⅝	.17	.03	1¾	.24	.03
¾	.19	.03	2	.25	.04
1	.19	.03	2½	.27	.04
1½	.20	.03	3	.29	.04

5-16 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
½	$0.27	$0.04	1¾	$0.33	$0.05
⅝	.28	.04	2	.35	.05
1	.29	.04	2½	.38	.06
1½	.30	.04	3	.41	.06
1½	.31	.05			

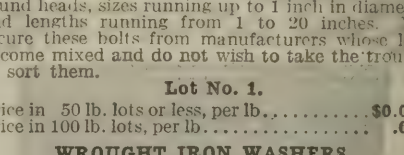
MIXED BOLTS.

No. 4-A-9. Mixed Bolts of all kinds, square and round heads, sizes running up to 1 inch in diameter and lengths running from 1 to 20 inches. We secure these bolts from manufacturers whose lots become mixed and do not wish to take the trouble to sort them.

Lot No. 1.

Price in 50 lb. lots or less, per lb..... $0.04½
Price in 100 lb. lots, per lb..... .03½

WROUGHT IRON WASHERS.



No. 4-A-10. These washers are made to easily fit the size of bolt given.

No. bolt inches	⅜	½	⅝	¾	⅞	1
No. in lb	440	139	113	55	20	13	10	9
Price per lb	$0.09	.07	.06	.05	.04	.04	.04	.04

BLANK AND THREADED NUTS.

No. 4-A-11.

Bolt Inches	Number in lb.	Price Blank per lb.
¼	74	$0.09
5/16	39	.08
⅜	21	.07
7/16	13	.06
½	12	.05
9/16	7	.05
⅝	6	.05
¾	3	.04
⅞	2	.04
1	2	.04

THREADED NUTS.

No. 4-A-12.

Bolt Inches	Number in lb.	Price Threaded per lb.	Bolt Inches	Number in lb.	Price Threaded per lb
¼	74	$0.12	9/16	7	$0.06
5/16	39	.10	⅝	6	.06
⅜	21	.08	¾	3	.05
7/16	13	.07	⅞	2	.05
½	12	.06	1	2	.05

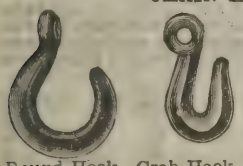
MACHINISTS' TOOLS.

TESTED STRAIGHT LINK STEEL COIL CHAIN.

No. 4-A-82. Every bit of this chain is made by improved process. All links in chain are thoroughly tested. Guaranteed to be full size and strength.

Size Inches	Approx. Weight Per ft.	Price Per ft.	Size Inches	Approx. Weight Per ft.	Price Per ft.
3/16	8 oz.	$0.04½	5/16	2 lb.	$0.08
¼	12 oz.	.05½	½	2½ lb.	.10
5/16	1 lb.	.06½	⅝	4¼ lb.	.16
⅜	1¼ lb.	.07½	¾	6 lb.	.23

CHAIN HOOKS.



Round Hook. Grab Hook.

No. 4-A-83. Made of the very best material for the purpose. Each hook guaranteed.

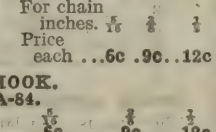
ROUND HOOK.

For chain inches.	5/16	⅜	½
Price each	.6c	.9c	.12c

GRAB HOOK.
No. 4-A-84.

For chain inches	5/16	⅜	½
Price each	.6c	.9c	.12c

WROUGHT IRON CHAIN REPAIR LINKS.
For Cutting and Repairing Chain.
No. 4-A-85. To Weld.



Diam. of chain inches	Price per doz.
3/16	5c
¼	6c
5/16	8c
⅜	11c
½	23c

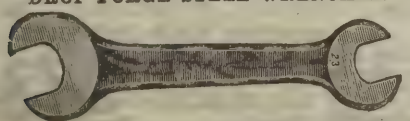
MALLEABLE REPAIR LINKS.

No. 4-A-86. These links combine simplicity and strength and can be applied without tools.

For chain size, in.	3/16	¼	5/16	⅜	½	⅝
Price each	5c	6c	6c	6c	7c	10c
Price per dozen	.34c	34c	46c	46c	70c	99c

We will furnish these links in lots of half dozen at dozen price.

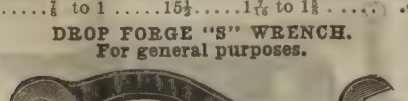
ENGINEERS' DOUBLE END BLACK FINISH DROP FORGE STEEL WRENCHES.



No. 4-A-87.

Size No.	Size bolt of U. S. Standard Nuts	Extreme Length Inches	Opening Inches	Price Each
23	3/16 to ¼	4	13/32 to ½	$0.09
25	¼ to 5/16	4½	7/16 to 9/16	.11
26	¼ to ⅜	5¼	7/16 to 11/16	.12
27	5/16 to ⅜	5½	1/2 to 11/16	.13
29	⅜ to 7/16	6¼	11/16 to 23/32	.15
30	⅜ to ½	7¼	11/16 to 7/8	.17
31	7/16 to ½	7¾	25/32 to 7/8	.18
34	½ to ⅝	9¼	7/8 to 1 1/32	.25
37	⅝ to ¾	11¼	1 1/16 to 1 5/32	.32
38	⅝ to ¾	13¼	1 1/16 to 1 5/16	.37
39	⅝ to ¾	13¾	1 1/16 to 1 5/16	.39
40	¾ to 1	15¼	1 1/4 to 1 5/8	.47
41	⅞ to 1	15¾	1 1/16 to 1 5/8	.49

DROP FORGE "S" WRENCH.
For general purposes.

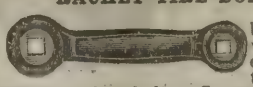


No. 4-A-88. This wrench is of long, light pattern, designed for use on agricultural machinery.

Standard Nut Size Bolt	Size of Opening	Extreme Length	Price Each
3/16 and ¼	¼ and 5/16	6½	$0.06
¼ and 5/16	5/16 and ⅜	7½	.08
5/16 and ⅜	⅜ and 7/16	8½	.13
⅜ and 7/16	7/16 and ½	9½	.17
7/16 and ½	½ and 9/16	10½	.21

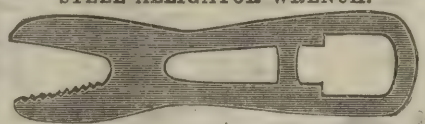
Price per set of five wrenches. .64c

RACHET TIRE BOLT WRENCH.



No. 4-A-89. Used by blacksmiths and wheelwrights. One end is for 3/16 inch, and the other for ¼ inch tire or carriage bolts. Length 6 inches.
Price .40c

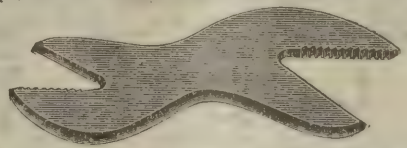
STEEL ALLIGATOR WRENCH.



No. 4-A-90. Can be used for pipe bolts or nuts up to ½ inch in diameter. Price each .60c

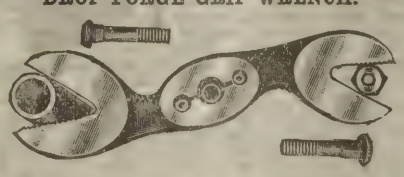
DOUBLE END HANDY WRENCH.

No. 4-A-91. Drop forge tool steel properly tempered, polished and nickel plated. Used for pipe, bolts or nuts.



Size No.	Takes Inches	Price Each	Size No.	Takes Inches	Price Each
2	¼ to ⅜	$0.17	2½	¼ to 1½	$0.38
1	½ to ¾	.24	3	½ to 1½	.58

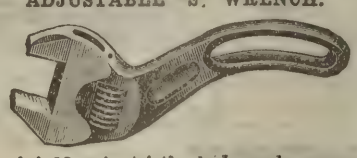
DROP FORGE GRIP WRENCH.



No. 4-A-92. Made of special high grade tool steel. Will grip any surface round or square, from ¼ to 1 inch diameter. Has three dies in center suitable for re-threading bolts that have damaged threads. Will re-thread bolts of following sizes:

	5/16	½"	¾"
Price each			35c

ADJUSTABLE "S" WRENCH.



No. 4-A-93. A strictly high grade guaranteed tool made to stand the hardest wear.

Length inches	6	8	10	12	14
Opens inches	¾	1	1⅜	1⅝	2
Price each	$0.33	$0.43	$0.58	$0.73	$0.98

AGRICULTURAL MONKEY WRENCH.

No. 4-A-94. This wrench is of extra heavy forged steel. Bar and head forged from one piece. Deep, milled screw thread. Steel knurl opens full. Every wrench fully warranted.

Size Inches	Price Each	Size Inches	Price Each
6	$0.16	12	$0.33
8	.20	15	.40
10	.23		

KNIFE HANDLE MONKEY WRENCH.

No. 4-A-95. Machinists' pattern, designed especially for mechanics' use. All parts are made of the best material accurately fitted and every wrench warranted.

Size inches	6	8	10	12	15	18	21
Price, each	$0.38	.45	.54	.63	1.09	1.35	1.64

GAS PLIERS.

No. 4-A-387. Made of best grade steel, drop forged.

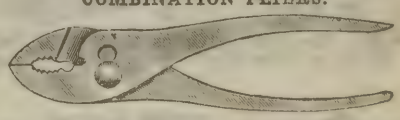
Length, inches	7	8	9	10
Price, each	$0.20	$0.25	$0.30	$0.35

BURNER PLIERS.

No. 4-A-388. Made of best grade steel, drop forged.

Size Inches	Price Each
5	$0.15
6	.20

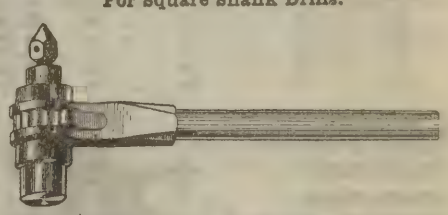
COMBINATION PLIERS.



No. 4-A-389. Made of the best grade of tool steel. Have both flat and pipe jaws adjusted with two clutches and will grip up to ¾ inch gas pipe. One handle is extended into a finely tempered screw driver and sharpened between jaws, making a wire cutter. Handsomely nickel plated.

Size, inches	6	8	10
Price, each	$0.30	$0.38	$0.41

GENUINE PACKER BOILER RATCHETS.
For Square Shank Drills.



No. 4-A-390. These tools are made from selected materials only and are designed to withstand long and continued service. The handles are forged from the highest grade machine steel. Ratchet wheels and palls are forged from best quality of steel. The feed points are tool steel, hardened and tempered. All parts are carefully machined, highly finished and fitted together to work smoothly and with the least possible friction.

Size No.	Size Handle Inches	Price Each
1	10	$3.65
2	12	4.25
3	16	5.40

TAPER SQUARE SHANK DRILLS.

No. 4-A-391. To fit Boiler and Sleeve Ratchets.

Diam. Inches	Length Inches	Price Each	Diam. Inches	Length Inches	Price Each
¼	5	$0.55	⅜	6½	$0.85
5/16	5	.60	½	7½	1.12
⅜	6	.65	1	8½	1.40
5/16	6½	.69	1¼	9	1.70
½	6½	.72	1½	9	2.00
⅝	6½	.78			

LITTLE GIANT COMBINATION RATCHETS.

This Tool consists of Boiler and Machinists' socket complete, with handle which is reversible. These tools are particularly adapted to the use of Bridge Builders, Boiler Makers, Blacksmiths, Carriage Makers and various other trades.

No. 4-A-393. Combination, with 10 inch handle .$3.50

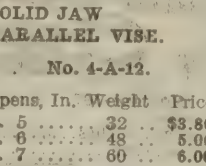
No. 4-A-394. Combination, with 13 inch handle 4.15
No. 4-A-395. Combination, with 16 inch handle 5.30

Machinists', Blacksmiths' and Combination Vises.

QUICK ACTING SWIVEL BOTTOM MACHINISTS' SOLID JAW PARALLEL VISE.

No. 4-A-12.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
8	3½	5	32	$3.80
10	4	6	48	5.00
12	4½	7	60	6.00



QUICK ACTING PATENT SWIVEL BOTTOM SELF ADJUSTING VISE.

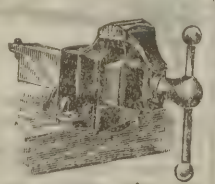
No. 4-A-13.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
24	3½	5	34	$4.00

QUICK ACTING STATIONARY BOTTOM MACHINISTS' SELF-ADJUSTING VISE.

No. 4-A-14.

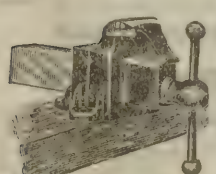
Size No.	Size Jaw, In.	Opens, In.	Weight	Price
23	3½	5	30	$3.50
25	4	6	42	4.25
29	5	8	75	8.00
31	5½	9	106	9.00
33	6½	10	150	12.00



QUICK ACTING MACHINISTS' STATIONARY BOTTOM, SOLID JAW, PARALLEL VISE.

No. 4-A-15.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
9	4	6	42	$3.85
13	5	8	68	7.00
15	5½	9	92	7.75
17	6½	10	123	10.50



MACHINISTS' STATIONARY BOTTOM, SOLID JAW, PARALLEL VISE, NOT QUICK ACTING.

No. 4-A-16.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
49	6½	11	117	$10.50

STEEL BEAM VISE.

No. 4-A-17. This vise is of very strong construction and is made with solid steel beam. The handles are of cold rolled steel and the jaws tempered steel. Furnished with bolt and nut and can therefore be used as a swivel as well as a stationary vise.

Width of Jaws	Opens, Inches	Weight, lbs.	Price Each
2½	3	11	$1.25
3	3½	13	1.55
3½	4	19	1.78
4	6	30	2.50

OVAL SLIDE VISE.

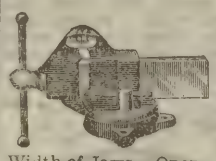
No. 4-A-18. We guarantee this to be the strongest and best finished oval slide vise on the market. Has two steel jaws and is fully warranted in every particular.

Width of Jaws, Inches	Opens, Inches	Weight, lbs.	Price Each
2½	3½	8	$1.00
3	4	14	1.17
3½	4½	22	1.80
4	4½	30	2.55

STEEL BEAM SWIVEL BASE VISE.

No. 4-A-18½. This vise has a solid steel beam which gives it strength. Being fitted with a swivel bottom it can be turned rapidly either right or left. This movement is securely fastened with turn of lever.

Width of Jaws, Inches	Opens, Inches	Weight, lbs.	Price Each
2½	3	12	$1.30
3	3½	15	1.65
3½	4	20	1.90
4	6	32	2.80

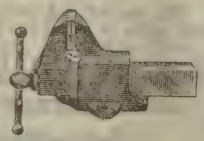


VULCAN SWIVEL VISE.

No. 4-A-19. This is the best vise on the market in design, material, workmanship and finish. It can be turned in a position parallel with the floor. The grip is positive and will not slip.

Width of Jaws, Inches	Opens, Inches	Weight, lbs.	Price Each
3	4	28	$3.70
3½	5	38	4.20
4	6	54	5.00
4½	6½	65	5.75

WOODWORKERS' STATIONARY VISE.



Solid Steel Beam

No. 4-A 20. This is a high grade vise equal to any on the market. The jaws are faced with special tool steel. Will take the heaviest kind of work.

Width of jaws 4". Opens 7". Weight 46 lbs.
Price $4.45
Width of jaws 4½". Opens 11". Weight 60 lbs.
Price $5.50

WOODWORKERS' SWIVEL BOTTOM VISE.

No. 4-A-21. Made with solid steel beam and adjustable. Can be turned in any direction. Guaranteed to be the best vise of its kind on the market. Width of jaws 4". Opens 7". Weight 52 lbs.
Price $5.50
Width of jaws 4½". Opens 11". Weight 66 lbs.
Price $6.75

"PREMIER" STATIONARY BENCH VISE.

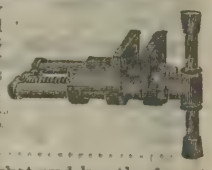
No. 4-A-22. We guarantee this to be the most substantial and best constructed vise of its kind on the market.

The body of the vise is made from a special mixture which makes a very tough and strong vise casting, and cannot possibly be excelled in any vise.

The screw knob, head and handle are cold rolled steel. The jaws are made of the best grade of crucible tool steel. We guarantee this vise fully in every particular and will replace any broken parts free of charge.

Width Jaw, Inches	Opens, Inches	Weight, Lbs.	Price Each
3	4½	25	$2.55
3½	4½	28	3.00
4	4½	42	5.55
4½	6½	57	4.15
5	7	70	5.15

QUICK ACTING WOODWORKERS' VISE.



This vise is used largely in Manual Training and Trade Schools throughout the country and is especially adapted for their work. Is an ideal woodworkers' vise. It is thoroughly practical and clamps the work up so it will not slip.

It is the most simply constructed vise on the market and has the fewest parts of any. There are no springs, triggers or complicated mechanism to break or get out of order.

The finish of this vise is of the very best. Jaws are of good grade of cast iron. The guide bars and screw are cold rolled steel. The nut is malleable iron. Each part is subjected to rigid inspection and guaranteed. It is not to be compared with the cheap vises of similar type on the market.

No. 4-A-23. Length of jaws, 7". Depth of jaws 4". Opens 9". Weight 25 lbs.
Price $4.40

No. 4-A-24. Length of Jaws 7". Depth of jaws 4". Opens 12". Weight 35 lbs.
Price $4.75

BLACKSMITHS' SOLID BOX VISES.

These vises are made of solid wrought iron. The jaws are of steel. The screw is deep lathe cut. Every vise guaranteed to give perfect satisfaction.

Weight, Lbs.	Width of Jaws	Price Each
35	3½	$4.00
40	4	4.20
45	4½	4.40
50	4½	4.60
60	4½	4.80
65	5	5.20
70	5½	5.60
75	5½	6.00
80	5¾	6.40
90	6	7.00
100	6½	8.00

"PREMIER" COMBINATION ANVIL, VISE, DRILL AND HARDY USEFUL COMBINATION TOOL.

No farm or workshop should be without this article. This useful combination of tools is designed to meet all requirements of farmers, mechanics, mills, mines; in fact, it is useful in every home. It consists of a vise, drill, anvil and hardy. The machine is quickly adjusted. Jaws of vise open 6". Width of jaws 3½", which are faced with steel.

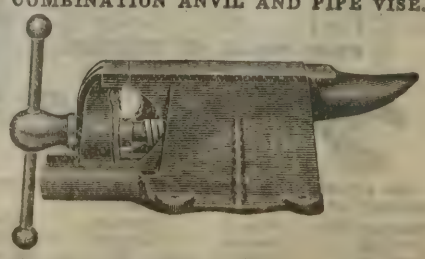
Top of anvil is case hardened. It is adjusted by raising the top of the anvil, sliding it backward and forward, which engages the lug on the rack bar, making it perfectly rigid when in use.

It is the best outfit ever offered for the money. With it you can mend all kinds of machinery, drill holes up to ½", hammer or rivet on anvil, cut iron with the hardy, file saws, sew harness, hold small articles and do many other handy and useful things. It will save its cost in three months to anyone in need of tools. It is sold under an absolute guarantee for one year.

Square shank drills are used in connection with this tool.
Weight 50 lbs.
No. 4-A-26. Price complete without drills $3.25
No. 4-A-2500. Square shank drills to be used in connection with **Combination Tool.**

Size, Inches	Price Each	Size, Inches	Price Each
¼	$0.08	⅜	$0.24
5/16	.12	½	.25
⅜	.16	⅝	.28
7/16	.20		

COMBINATION ANVIL AND PIPE VISE.

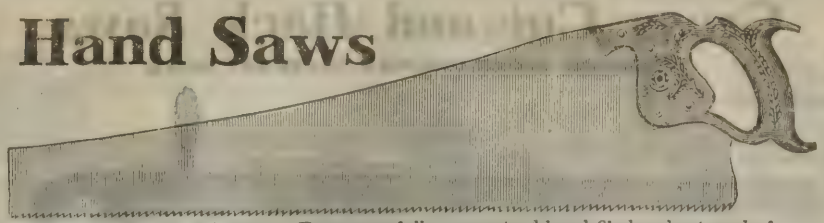


This vise is intended only for light work and is the best finished vise of its type on the market. Made of cast iron with chilled face.

Width of jaws 3". Opens 5". Weight 26 lbs.

No. 4-A-27. Price $1.05

Premier Hand Saws



Made from high speed steel, hardened and tempered by special process. Blades are highly polished, extra thin back, carved handles, highly polished and varnished. Five improved brass screws. The best hanging and best cutting saw ever offered.

Superior quality. Your money back if not satisfactory. Every saw fully guaranteed hand filed and set ready for use.

PANEL SAWS
No. 4-A-873. Straight Back.
No. 4-A-874. Skew Back.

Length, Inches	Points to the Inch	Price
18	9, 10, 11, or 12	$1.15
20	9, 10, 11, or 12	1.25
22	9, 10, 11, or 12	1.35

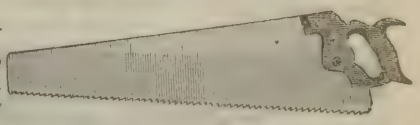
HAND SAWS
No. 4-A-875. Straight Back.
No. 4-A-876. Skew Back.

Length, Inches	Points to the Inch	Price
24	8, 9, 10, or 11	$1.40
26	7, 8, 9, 10, or 11	1.50
28	6, 7, or 8	1.70

HAND RIP SAWS.
No. 4-A-877. Straight Back.
No. 4-A-878. Skew Back.

Length, Inches	Points to the Inch	Price
24	5, 5½, 6, or 6½	$1.40
26	5, 5½, or 6	1.50
28	4, 4½, 5, or 5½	1.70
30	4, 4½, or 5	1.80

CHICAGO SPECIAL HAND SAWS.



Made from high grade crucible spring steel, patent ground, hardened and tempered by special process, highly polished blade with thin back. Polished beech handles, four improved brass screws. Each saw guaranteed to be strictly first class and an excellent tool in every particular. Money back if not satisfactory. Each saw hand filed and set ready for use.

PANEL SAWS
No. 4-A-879. Straight Back.
No. 4-A-880. Skew Back.

Length, Inches	Points to the Inch	Price
18	9, 10, 11, or 12	$0.90
20	9, 10, 11, or 12	1.00
22	9, 10, 11, or 12	1.10

HAND SAWS
No. 4-A-881. Straight Back.
No. 4-A-882. Skew Back.

Length, Inches	Points to the Inch	Price
24	8, 9, 10, or 11	$1.10
26	7, 8, 9, 10, or 11	1.20
28	6, 7, or 8	1.30

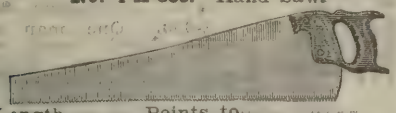
HAND RIP SAWS
No. 4-A-883. Straight Back.
No. 4-A-884. Skew Back.

Length, Inches	Points to the Inch	Price
24	5, 5½, 6, or 6½	$1.10
26	5, 5½, or 6	1.20
28	4, 4½, 5, or 5½	1.30
30	4½, or 5	1.60

LEADER HAND SAWS

Made from good quality special saw steel nicely finished, filed and set ready for use. This is a good general-purpose saw and suitable for any common work. It is not intended for carpenters' or mechanics' use. Blade is of uniform thickness, made in straight back only.

No. 4-A-885. Hand Saw.

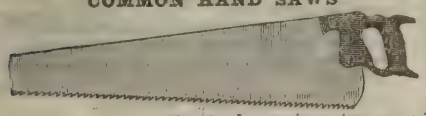


Length, Inches	Points to the Inch	Price
24	7, 8, 9, or 10	$0.55
26	7, 8, 9, or 10	.60

No. 4-A-886. Rip Saw.

Length, Inches	Points to the Inch	Price
26	5, 5½, or 6	$0.65
28	5, 5½, or 6	.70

COMMON HAND SAWS

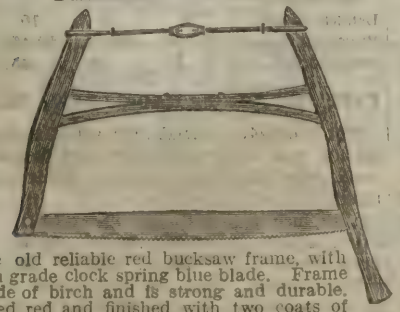


Made from cast steel, spring tempered, Beechwood handles.

No. 4-A-887.

Length, inches	18	20	24	26
Price, each	$0.22	$0.25	$0.30	$0.35

PREMIER BUCKSAW



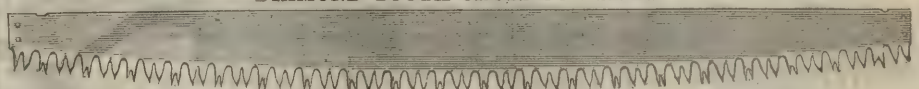
The old reliable red bucksaw frame, with a high grade clock spring blue blade. Frame is made of birch and is strong and durable. Painted red and finished with two coats of good varnish. The blades are 30 inch long, thin back, with slender, deep V teeth—which makes a very fast cutter.

No. 4-A-901. Frame complete with saw. Price 55c
No. 4-A-902. Extra blades. Price, each .35c

CROSS CUT SAWS

Our saws are made of the very best grade of saw steel and are tempered in oil by a special process which insures an even degree or temper throughout the entire saw.
We guarantee every saw to be ground to a proper taper and to be the quickest cutting and most durable saw on the market, and if not satisfactory in every respect we will refund your money.
Each saw is set and sharpened, ready for use; handles are not included.

DIAMOND TOOTH CROSS CUT SAWS



No. 4-A-888. Diamond tooth cross cut saws are ground 4 gauges thinner on the back to a true taper, 14-gauge at the teeth and 18-gauge at the back. Prices do not include handles.

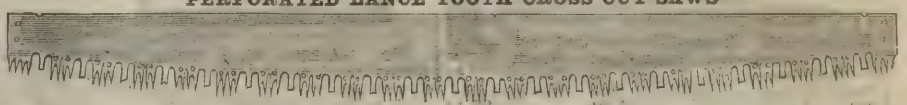
Length, feet	5	5½	6	6½	7
Price, each	$1.50	$1.67	$1.82	$2.00	$2.20

CHAMPION TOOTH CROSS CUT SAWS

No. 4-A-889. Champion tooth cross cut saws are ground 2 gauges thinner on the back to a true taper, 14-gauge at the teeth and 16-gauge at the back. Prices do not include handles.

Length, feet	5	5½	6	6½	7
Price, each	$1.30	$1.45	$1.60	$1.75	$1.90

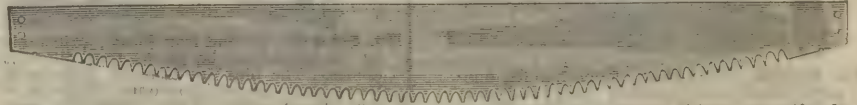
PERFORATED LANCE TOOTH CROSS CUT SAWS



No. 4-A-890. Perforated Lance Tooth Cross Cut Saws are ground 4 gauges thinner on the back to a true taper, 14-gauge at the teeth and 18-gauge at the back. Prices do not include handles.

Length, feet	4½	5	5½	6	6½	7
Price, each	$1.40	$1.60	$1.80	$1.90	$2.06	$2.25

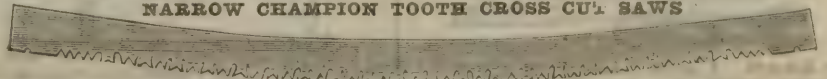
PLAIN TOOTH CROSS CUT SAWS



No. 4-A-891. Plain Tooth Cross Cut Saws are ground 2 gauges thinner on the back to a true taper, 14-gauge at the teeth and 16-gauge at the back. Prices do not include handles.

Length, feet	5	5½	6	6½	7
Price, each	$1.35	$1.50	$1.65	$1.80	$1.95

NARROW CHAMPION TOOTH CROSS CUT SAWS

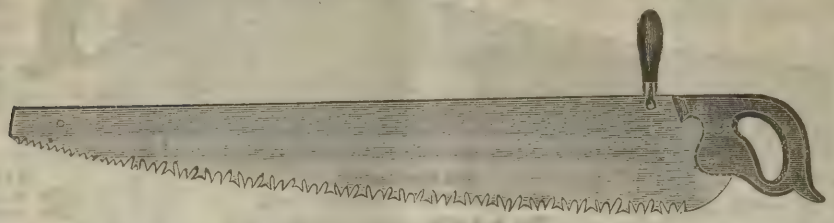


No. 4-A-892. Narrow Champion Tooth Cross Cut Saws, set and sharpened and ready for use. Prices do not include handles.

Length, feet	5	5½	6	6½
Price, each	$0.69	$0.75	$0.83	$0.91

Cross Cut and Hack Saws

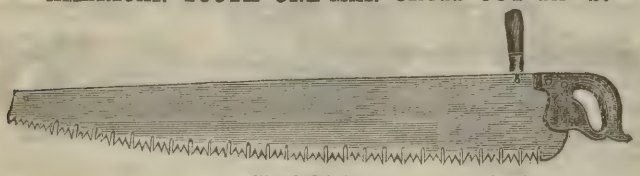
CHAMPION TOOTH ONE-MAN CROSS CUT SAWS.



No. 4-A-893. Champion Tooth One-Man Cross Cut Saws are ground 2 gauges thinner at the back and furnished with supplementary handle.

Length, feet	3	3½	4	4½	5
Price, each	$0.95	$1.10	$1.25	$1.40	$1.60

AMERICAN TOOTH ONE-MAN CROSS CUT SAWS.

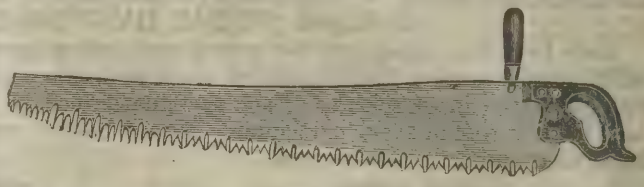


Straight Back

No. 4-A-894. American Tooth One-Man Cross Cut Saws—straight back—ground 2 gauges thinner at the back, furnished with supplementary handles.

Length, feet	3	3½	4	4½	5
Price, each	$1.00	$1.15	$1.35	$1.52	$1.70

MERICAN TOOTH ONE MAN CROSS CUT SAWS.



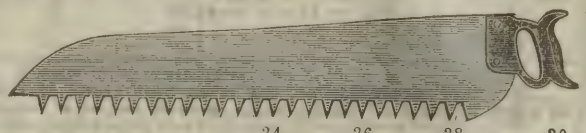
Skew Back

No. 4-A-895. American Tooth One Man Cross Cut Saws—skew back—with supplementary handle.

Length, feet	3	3½	4	4½	5
Price, each	$1.05	$1.20	$1.40	$1.53	$1.75

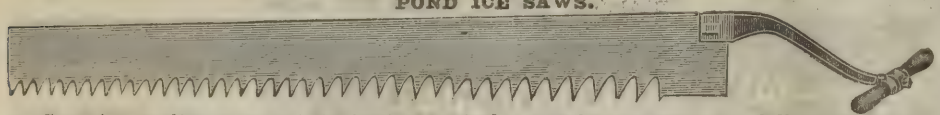
HAND ICE SAWS.

No. 4-A-896. For wagon use. Set and sharpened, fitted with iron handles, each saw properly tempered and fully guaranteed.



Length, inches	24	26	28	30
Price, each	$0.70	$0.75	$0.80	$0.85

POND ICE SAWS.

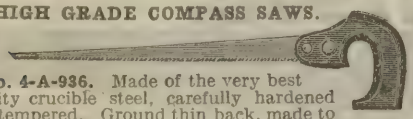


Superior quality, made of the best saw steel, properly tempered and fully guaranteed.

No. 4-A-897. Pond Ice Saws, 7" butt, 5" point, set and sharpened.

Length, feet	4	4½	5
Price, with handles	$1.98	$2.23	$2.48

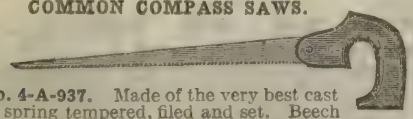
HIGH GRADE COMPASS SAWS.



No. 4-A-936. Made of the very best quality crucible steel, carefully hardened and tempered. Ground thin back, made to meet the requirements of the most critical carpenter.

Length, inches	10	12	14	16
Price, each	$0.20	$0.23	$0.25	$0.28

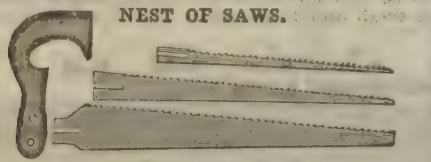
COMMON COMPASS SAWS.



No. 4-A-937. Made of the very best cast steel spring tempered, filed and set. Beech wood handles.

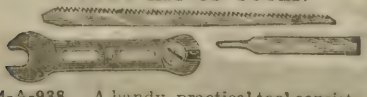
Length, inches	12	14
Price, each	$0.12	$0.14

NEST OF SAWS.



No. 4-A-935. Consisting of one handle, one panel blade, one compass blade and one pruning blade—all interchangeable. Price, per set $0.62

HANDY KIT OF TOOLS.

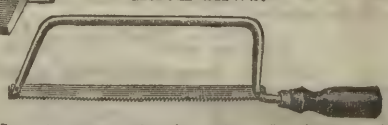


No. 4-A-938. A handy, practical tool consisting of keyhole saw and pad chisel, screw driver, two wrenches, awl and bit handle. Made from good quality steel. Price, per set $0.14

WHITING SAW SET.

No. 4-A-903. Made of the best tool steel, suitable for any kind of cross cut saws. Price, each $0.30

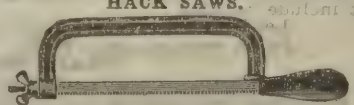
HACK SAWS.



No. 4-A-939. Steel spring fit frame, nickel plated, black enamel handle. Complete with one saw blade.

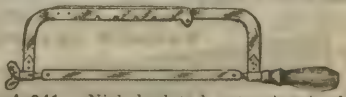
Size, inches	8	10
Price, each	$0.11	$0.14

HACK SAWS.



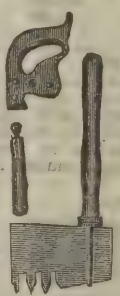
No. 4-A-940. Strong iron frame, adjustable so the blade can be set at four different angles. The pins are fastened securely in frame and will not drop out. Will take 8 inch blade only. Price, complete with one blade $0.14

ADJUSTABLE HACK SAW FRAME.



No. 4-A-941. Nickel plated extension hack saw frame. Takes blades from 8 to 12 inches and holds them stiff and firm. Can be set at four different angles. Price, with one 8 inch blade $0.45

CROSS CUT SAW HANDLES.



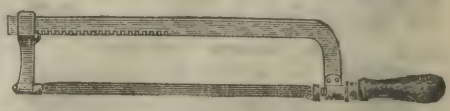
Made of selected well seasoned hard wood with malleable iron parts.

No. 4-A-898. Cross cut saw handles with loop for two man cross cut saw. Price, per pair $0.09

No. 4-A-899. Supplementary handles for one man cross cut saws. Price each .. $0.08

No. 4-A-900. One man saw handles, beech wood, varnished edges. Price, each $0.10

EXTENSION HACK SAW FRAME.



No. 4-A-942. Heavy steel nickel plated frame. The strongest and best hack saw frame manufactured. Takes blade from 8 to 12 inches and can be adjusted to set blades at four different angles. Price, with one blade $0.85

HACK SAW BLADES.

No. 4-A-943. Adapted for cutting all ordinary steel and wire, specially tempered and guaranteed to be the best cutting blade on the market.

Length, inches	8	9	10	12
Price, per doz	$0.30	$0.35	$0.45	$0.50
Price, for six	.17	.20	.25	.30

FAST CUTTING HACK SAW BLADES.

No. 4-A-944. Special high grade, suitable for cutting tool steel and other hard metal. Will make more cuts than any other blade manufactured.

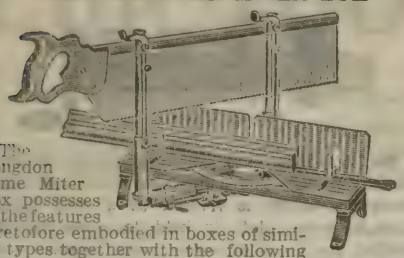
Length, inches	8	9	10	12
Price, per doz.	$0.45	$0.48	$0.55	$0.65
Price, for six	.25	.29	.30	.35

No. 4-A-945. Hack saw blades made especially for cutting brass, common pipe and tubing of all kinds. These blades have file milled teeth.

Length, inches	8	9	10	12
Price, per doz.	$0.35	$0.40	$0.45	$0.50
Price, for six	.20	.23	.26	.30

SAW TOOLS

LANGDON ACME MITER BOX



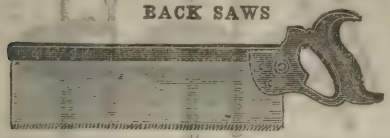
The Langdon Acme Miter Box possesses all the features heretofore embodied in boxes of similar types together with the following improvements. The guides are one inch long, thus holding the saw steadily when drawn up to its highest capacity. These guides are provided with elevators so the saw is held stationary above the work when desired.

In addition to notches for the positive angles commonly used the Acme box has a graduated arc in front with the various degrees marked thereon; and index plate is furnished with each machine so that there can be no mistake in cutting the various degrees. The saw can be secured at any intermediate or positive angle by means of a small thumb lever in front of the box, supporting guides for holding work in place, which guides are also used where angles more acute than 45 degrees are desired. Has length gauge for duplicate lengths and steel bottom boards roughened to prevent work from slipping. The polished parts are nickel plated. Prices include first class back saw.

Size No. 1. Capacity at right angles 7½ inches. Capacity at miter 5 inches.
Size No. 2. Capacity at right angles 10¼ inches. Capacity at miters 7 inches.
Size No. 2½. Capacity at right angles 10¼ inches. Capacity at miters 7 inches.

No. 4-A-915. Size No. 1. With 24x4" saw. Price **$8.70**
No. 4-A-916. Size No. 2. With 26x4" saw. Price **$10.90**
No. 4-A-917. Size No. 2½. With 28x5" saw. Price **$12.00**
No. 4-A-918. Size No. 2½. With 30x5" saw. Price **$12.60**

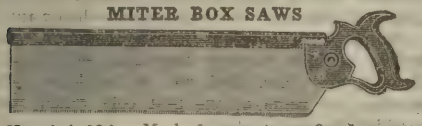
BACK SAWS



No. 4-A-933. Made of extra refined crucible steel. Stiff steel back, polished beech handles with three brass screws. Hand filed and set ready for use.

Size, inches	10	12	14	16
Price, each	$0.85	$1.00	$1.10	$1.25

MITER BOX SAWS

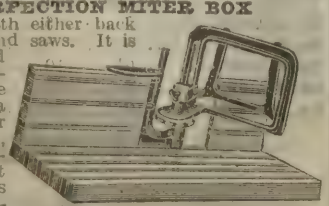


No. 4-A-934. Made from extra refined crucible steel carefully hardened and tempered, evenly ground, heavy steel back, polished bench handles with three brass screws, hand filed and set ready for use.

Width of blade along back, 4 inches.

Size, inches	22	24
Price, each	$1.60	$1.80

PERFECTION MITER BOX



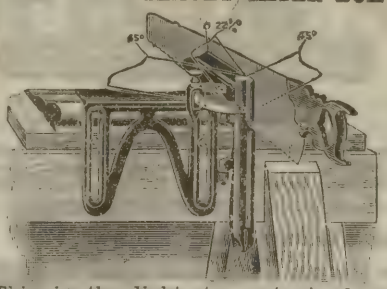
For use with either back handle or hand saws. It is quickly and easily set to accurately guide the saw in a square cut or at either 22½, 30 or 45 degrees. Right or left. Has special hardened graduated steel plate and steel index lever, neither of which are suceptible to wear. Has a long saw guide assuring accuracy. Long central bearing posts with a screw clamping device, reducing to a minimum the liability of wear or looseness.

For cutting to exact depths a buck saw is used, the back rib of which rests on the shoulder within the swinging saw guide.

Prices do not include saws.

No. 4-A-913. Price, complete with wood base **$2.50**

IMPROVED SEAVEY MITER BOX



This is the lightest, most simple and most accurate miter box manufactured. No special saw is required and it can be easily folded and carried in tool chest. It will cut a miter of any width to make a perfect joint.

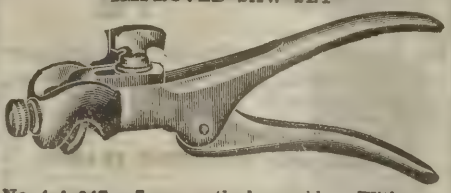
Price does not include saws.

No. 4-A-914. Price **$1.90**

MORRILL SAW SETS,

No. 4-A-946. Morrill saw sets for hand, band and jig saws. Hardened anvil and plunger tempered steel springs. Price, each..... **$0.25**

IMPROVED SAW SET

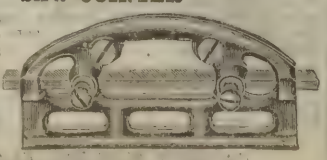


No. 4-A-947. Lever on the lower side. With this tool, the teeth of a saw can be set with great rapidity and little effort. The anvil and plunger are hardened. The springs are of tempered steel, heavy nickel plated finish. Price, each..... **$0.35**

ECCENTRIC ANVIL SAW SETS

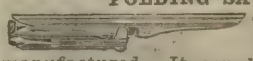
No. 4-A-948. Made with revolving eccentric anvil. Designed to show the required bevel and length of all saw teeth ranging from 4 to 16 teeth to the inch. The figures on the dial indicate the number of teeth to the inch. Makes the work easier and does it correctly. Hardened steel anvil and plunger. Price, each..... **$0.67**

SAW JOINTER



No. 4-A-904. Adjustable to any thickness of saw blade and can be used with any flat file. Price, each.... **$0.33**

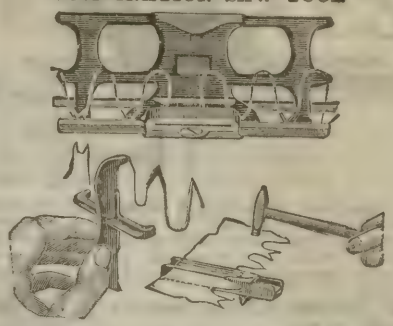
FOLDING SAW VISE



This is the most convenient and complete saw vise manufactured. It can be attached or detached without screwing or clamping. In addition it has all the advantages of other saw vises. It is fastened by folding hooks which are driven into the bench. It has a solid bearing which does away with rasping sound when filing. It is easily folded up and placed in tool box or kit.

No. 4-A-912. Length 14 inches. Price, each **$0.47**

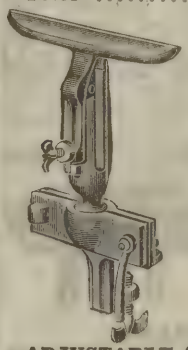
COMBINATION SAW TOOL



No. 4-A-905. Necessary to users of cross cut saws. Set consists of jointer, raker tooth gauge, setting block, set gauge and side file. Full directions with each set. Price, per set **$0.35**

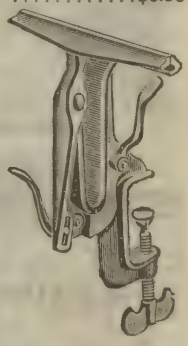
WENTWORTH PATTERN SAW VISE

No. 4-A-909. Made with flexible rubber cushion between the jaws, which prevents vibration. Attaches to bench by means of thumb screw. Width of jaw 11 inches. Price **$0.44**



BALL AND SOCKET SAW VISE

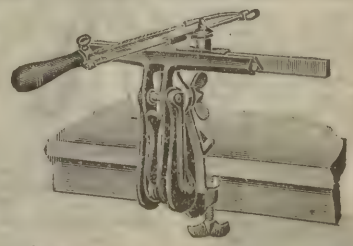
No. 4-A-910. By the use of this vise a saw can be filed at any angle or square, as operator may desire. Width of jaw 9½ inches. Price, each **$0.50**



ADJUSTABLE SAW VISE

No. 4-A-911. For attaching to work bench. This vise has malleable iron screw clamp and lever and cam for holding it in any position. Width of jaw 9½ inches. Price, each..... **$0.45**

SAW FILING GUIDE AND VISE



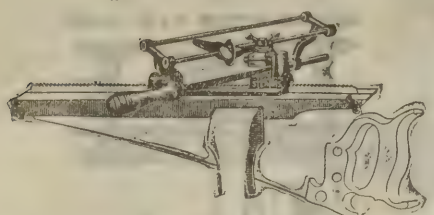
The front of this vise is faced with a strip of rubber which holds the saw firmly and prevents noise and vibration. The ball and socket which connects the vise and clamp allow favorable adjustment to light while filing.

The saw has three rigid positions in which it holds the file. One position for filing the saw on first side, another for filing it on the opposite side and a third for use in filing rip saws only.

With this device saw filing is made easier and an inexperienced person can file a saw correctly. The guide bar is 16 inches long, perfectly true and highly polished. Packed in box with full directions.

No. 4-A-906. Price, each **$1.50**

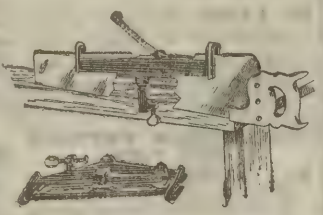
SAW FILING TOOL



This tool is designed to be used for filing saw in a bench vise. It may be used, however, in connection with a regular saw vise. It is made entirely of steel and iron, nicely Japanned. The steel parts are bright finish.

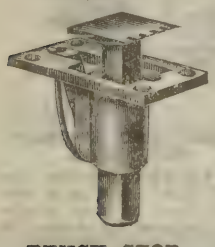
No. 4-A-907. Price, each.....**$0.95**

SAW VISE



No. 4-A-908. Can be clamped to bench or board. Holds saw firmly. Jaws open by one movement of lever. Price, each, **$0.28**

SPRING BENCH STOP



No. 4-A-1121. Strong and rigid and may be instantly adjusted from the top of the bench to any position without the use of screw driver. Reversible head, and can be raised 2 inches above bench.

Price **$0.33**

BENCH STOP

No. 4-A-1120. Reversible screw adjustment. May be raised to desired height by turning the adjustment screw.

Price **$0.25**

CABINET SCRAPER

No. 4-A-1124. Blade made of special tempered steel, adjustable to vary depth of cut, raised handles, length 11 inches, 2¾-inch blade. Price.....**$0.60**

FLOOR SCRAPER

No. 4-A-1125. Adjustable so that the blade can be held at any angle. Used by wood-workers, cabinet makers and for scraping blocks in meat markets. Blade is of the best tool steel.

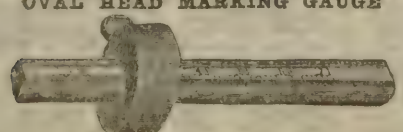
Price **$0.90**

BUTT GAUGE

No. 4-A-1126. One bar has steel cutter at each end. When outer cutter is set for gauging the edge of the door, the cutter on the other end gauges distance from back of jamb. Guaranteed accurate, compact and convenient.

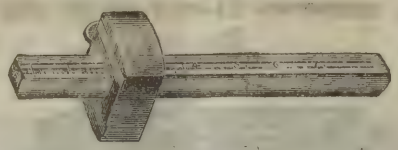
Price **$0.48**

OVAL HEAD MARKING GAUGE



No. 4-A-1127. Made of Boxwood, has oval head and best steel points and brass thumb screw. Price.....**$0.14**

MORTISE MARKING GAUGE



No. 4-A-1128. Made of Genuine polished mahogany, steel points, brass thumb screw. Price.....**$0.48**

MALLEABLE IRON SCREW CLAMPS

No. 4-A-920. With steel screw swivel heads, the strongest clamp made.

Opens, inches	3	4	5
Price, each	$0.12	.15	.19
Opens, inches	6	8	10
Price, each	$0.25	.35	.43

QUILT FRAME CLAMPS

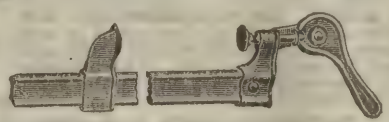
No. 4-A-921. Ball and socket head screw. Opens 3 inches. Price, each, **$0.04.** Price, per doz. **$0.44.**

WROUGHT IRON BENCH SCREWS

No. 4-A-919. Removable collars, perfectly cut threads.

Diameter inches	1	1⅛	1¼
Length inches	15	16	17
Price, each	$0.27	$0.30	$0.38

STEEL BAR ECCENTRIC CLAMPS



No. 4-A-922. This bar is designed to stand great strain. The steel bar is I shaped steel of extreme stiffness. It is stiffer, thicker and wider than others. The sliding jaw works easily and smoothly by the automatic enclosed spiral spring held firmly in place at any desired point on the bar.

Size, inches	10	18	24
Price, each	$0.48	.57	.65
Size, inches	30	36	48
Price, each	$0.75	.82	.97

CARPENTERS' STEEL BAR CLAMPS

No. 4-A-923. The bar is T shaped, size 1½x⅜ inches, ⅝ inch screw, notches are cut on the lower side of the bar affording greater holding power to the sliding jaw than if they were on the upper edge.

Opens, feet	2	2½	3
Price, each	$1.10	1.25	1.35
Opens, feet	4		5
Price, each	$1.50		1.70

CABINET MAKERS' CLAMPS

Can be easily and quickly attached to a wood bar, size 1¼ x 2½ inches. ⅝ inch screw, finished with a heavy crank handle Prices do not include wood bar.

No. 4-A-924. Price, each.....**$0.45**

Price per doz.....**5.00**

IMPROVED TEMPERED STEEL BAR CLAMPS

No. 4-A-925. A screw works in two bearings, thereby greatly increasing the life of the clamp. The screw fixture is riveted to a steel bar and movable screw plate is held to screw by steel washer, and point of screw works against a specially hardened steel plate, avoiding wear of screw through plate Washer is riveted to screw plate and cannot get out of order. Screw is ⅝ inch diameter and 7 inches long—is of cold rolled steel with a square cut thread. Saddle is held in place by notches on bottom of a tempered indestructible spring steel bar, size ⅛ x 1¼ inches.

Opens, feet	2½	3	4
Price, each	$1.45	1.75	1.90
Opens, feet		5	6
Price, each		$2.10	2.25

WOOD HAND SCREWS

No. 4-A-926. Made of the most carefully selected seasoned hard wood.

Threads are most carefully and accurately cut.

Length of jaw	Length of screw	Size of jaw	Price each
8	10	1¼	$0.25
10	12	1½	.30
12	14	2	.35
16	18	2½	.40

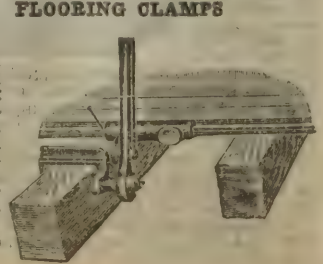
IMPROVED ADJUSTABLE HAND SCREW

The strongest hand screw made. Are made of the best seasoned maple. The jaws have but one slot, thereby retaining full strength. The spindles work in metal bearings, making the clamp absolutely rigid but easily adjustable when wanted.

Clamps work twice as fast as common wood screws, spindles having right and left threads. Handles are guaranteed not to get loose. The spindles are made of the best cold rolled steel, to which glue cannot stick.

No.	From center of Spindle to end of Jaw	Will Open	Size of Spindle	Price each
No. 4-A-927	5	6	½	$0.75
No. 4-A-928	6	8	5/8	.85
No. 4-A-929	6½	10	⅝	.95
No. 4-A-930	8	12	½	1.10
No. 4-A-931	10	15	½	1.40

FLOORING CLAMPS

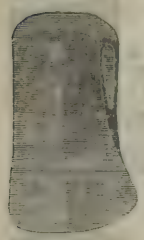


No. 4-A-932. A useful and labor saving device for laying flooring. Can be used to decided advantage in laying warped or crooked flooring.

Price.....**$0.36**

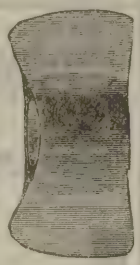
CHICAGO SPECIAL STEEL AXES

In offering the Chicago Special Steel Axe of our brands, we wish to call your attention to the fact that these axes are hand forged and finished. The bits are made from crucible steel, manufactured especially for the purpose, and is the highest priced steel used in the manufacture of axes. It insures uniformity and makes it possible for us to offer a line of axes with cutting edges that are neither too hard nor too soft, but just right and will keep an edge longer than any other axe on the market. They require less grinding, and therefore wear longer and are in every sense a high grade tool which we can recommend to those who require the best axe it is possible to produce. Every axe is guaranteed to be perfect and entirely satisfactory or money refunded.



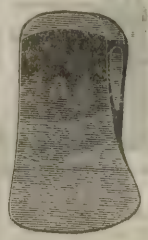
No. 4-A-949. Michigan pattern single bit Chicago Special axe, polished finish.

Weight, lbs	3½	4
Price, each	$0.65	$0.66
Weight, lbs	4½	5
Price, each	$0.67	$0.68



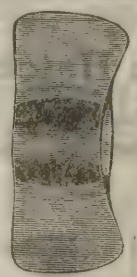
No. 4-A-952. Michigan pattern Chicago Special double bit axe, polished finish.

Weight Lbs.	Price Each
3½	$0.75
4	.77
4½	.78
5	.80



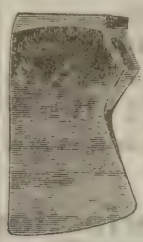
No. 4-A-950. Wisconsin or Western pattern single bit Chicago Special axe, polished finish.

Weight Lbs.	Price Each
3½	$0.65
4	.66
4½	.67
5	.68



No. 4-A-953. Wisconsin or Western pattern Chicago Special double bit axe, polished finish.

Weight Lbs.	Price Each
3½	$0.75
4	.77
4½	.78
5	.80



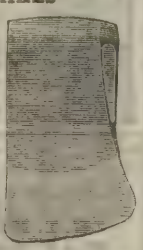
No. 4-A-951. Kentucky pattern single bit Chicago Special axe, polished finish.

Weight Lbs.	Price Each
3½	$0.65
4	.66
4½	.67
5	.68

We are positive that there is nothing on the market to equal this line in workmanship, material or price.

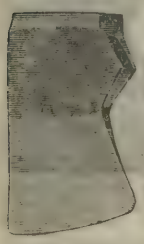
WILLIAM T. JONES AXES

These axes are made of the same high grade material as our Chicago special axes, but are not as carefully selected or as nicely finished. We guarantee that every axe sold under this brand is a good, serviceable tool and will give good satisfaction. In black finish only.



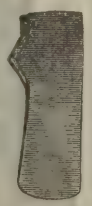
No. 4-A-954. Single bit Michigan pattern Wm. T. Jones axes.

Weight, Lbs.	Price, Each
3½	$0.35
4	.36
4½	.37
5	.38



No. 4-A-955. Single bit Kentucky pattern Wm. T. Jones axes, black finish only.

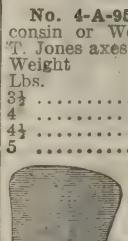
Weight Lbs.	Price Each
3½	$0.35
4	.36
4½	.37
5	.38



TURPENTINE AXES

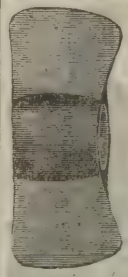
No. 4-A-960. Single bit Wm. T. Jones turpentine axes. Weight 3 lbs.

Price, each $0.30
Price, per doz 3.00



No. 4-A-956. Single bit Wisconsin or Western pattern Wm. T. Jones axes, black finish only.

Weight Lbs.	Price Each
3½	$0.35
4	.36
4½	.37
5	.38



No. 4-A-957. Double bit Michigan pattern Wm. T. Jones axes, black finish only.

Weight Lbs.	Price Each
3½	$0.37
4	.38
4½	.39
5	.40
5½	.41

No. 4-A-958. Double bit Wisconsin or Western pattern Wm. T. Jones axes.

Weight Lbs.	Price Each
3½	$0.37
4	.38
4½	.39
5	.40
5½	.41

Remember we are guarding your interests every minute. Your entire satisfaction as to quality, shipment and handling of your orders is the best guarantee of our future success and advancement.

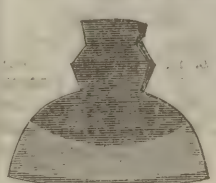
FIREMEN'S AXES

No. 4-A-961. W. T. Jones Firemen's axes with handles.

Price, each $0.55
Price, per doz 6.00

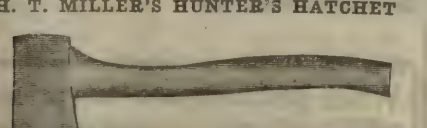
BROAD AXES

No. 4-A-962. Western pattern. Best crucible steel, properly tempered and guaranteed to be first class cutters.



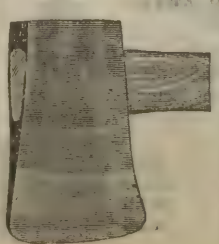
Width Cut Inches	Weight Lbs.	Price Each
11	6	$1.50
11½	6½	1.52
12	7	1.55
12½	7½	1.58
13	8	1.60
14	9	1.63

H. T. MILLER'S HUNTER'S HATCHET



No. 4-A-979. A useful tool around the house as well as in camp or on the farm. It takes the place of hatchet or axe for light work. Made of the best cast steel and fitted with handle 14 inches long.

Price $0.38



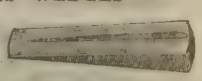
H. T. MILLER'S BOY'S AXE

No. 4-A-980. Made of the best grade cast steel, nicely finished. Handy for splitting kindling. Fitted with 28 inch handle.

Price, each $0.48

WOOD CHOPPERS' WEDGES

No. 4-A-963. Regular pattern. Made of high grade cast steel properly tempered and finished. Each wedge guaranteed.

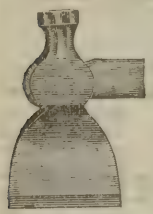


Weight, lbs	4	5
Price, each	$0.15	$0.1

Unexcelled for durability and general excellence.

PREMIER HATCHETS

Guaranteed to be the highest grade hatchets manufactured. Made of the very best grade of steel with special steel bits. Perfectly tempered and will hold the cutting edge longer than any other hatchet. Every hatchet is nicely finished and fitted with clear, second growth hickory handles, held firmly in the head with steel wedges. Each hatchet is sharpened, ready for use. Weights specified are for the hatchets before fitting handles.



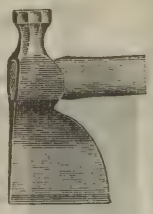
PREMIER SHINGLING HATCHET, BELL POLL

No. 4-A-965

Size, No	1	2	3
Width of bit	3½	3⅞	4½
Weight, ounces	17	23	29
Price, each	$0.60	$0.63	$0.68

PREMIER HALF HATCHET, BELL POLL

No. 4-A-966



Size No	1	2
Width of bit	3½	3⅞
Weight, ounces	15	20
Price, each	$0.60	$0.62

PREMIER LATHING HATCHET BELL POLL

No. 4-A-967

Size No	1	2
Width of bit	2½	2½
Weight, ounces	14	17
Price, each	$0.59	$0.61

Perfection Hatchets

Made from an extra high grade cast steel. Polished and bronze finish. Fitted with the highest grade hickory handles. Each hatchet properly tempered and fully guaranteed.

PERFECTION SHINGLING HATCHET

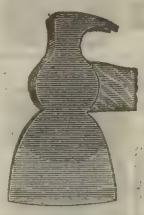
No. 4-A-968

Size No	1	2	3
Width of bit	3½	3⅞	4½
Weight, ozs.	17	23	29
Price, each	$0.38	$0.42	$0.46

PERFECTION HALF HATCHET

No. 4-A-970

Size No.	Width of Bit	Weight Ounces	Price Each
1	3	15	$0.39
2	3½	20	.42
3	3¾	27	.46



PERFECTION CLAW HATCHET

No. 4-A-969

Size No.	Width of Bit	Weight Ounces	Price Each
1	3½	19	$0.42
2	3⅞	25	.47
3	4¼	31	.50

PERFECTION LATHING HATCHET

No. 4-A-971

Size No.	Width of Bit	Weight Ounces	Price Each
1	2½	14	$0.37
2	2¾	17	.40

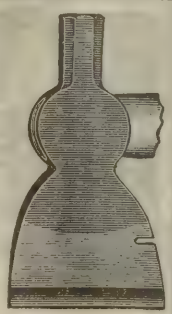
H. T. MILLER'S HATCHETS

These hatchets are made of the same grade of cast steel as our Perfection Hatchets, but are not as carefully selected or as nicely finished. We guarantee that every hatchet in this line is a good serviceable tool and will give good satisfaction.

Each hatchet is fitted with selected hickory handles and sharpened ready for use.

H. T. MILLER'S SHINGLING HATCHET

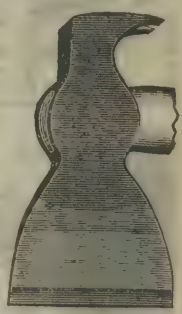
No. 4-A-972



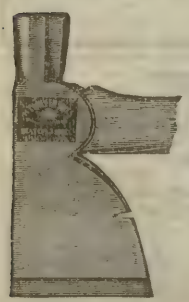
Size No.	Width of Bit	Weight Ounces	Price Each
1	3½	17	$0.25
2	3⅞	23	.27
3	4¼	29	.29

H. T. MILLER'S CLAW HATCHETS

No. 4-A-973



Size No.	Width of Bit	Weight Ounces	Price Each
1	3½	14	$0.27
2	3⅞	25	.29
3	4¼	31	.30



H. T. MILLER'S HALF HATCHETS

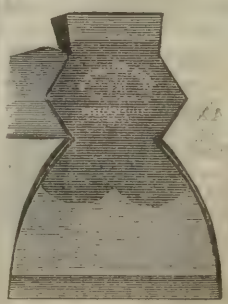
No. 4-A-974

Size No.	Width of Bit	Weight Ounces	Price Each
1	3½	15	$0.25
2	3⅞	20	.27
3	4	27	.29

H. T. MILLER'S LATHING HATCHET

No. 4-A-975

Size No.	Width of Bit	Weight Ounces	Price Each
1	2½	14	$0.30
2	2½	17	.33



H. T. MILLER'S BROAD HATCHET

No. 4-A-976

Size No.	Width of Bit	Weight Lbs.	Price Each
2	4½	1½	$0.40
3	5	2¼	.45
4	5½	2½	.50
5	6	2¾	.55

H. T. MILLER'S CARPENTER'S ADZES

No. 4-A-977. Made of the best grade of cast steel, bronze finish, polished bits. Prices do not include handles.

Width Cut Inches	Price Each
3½	$0.75
4	.80
4½	.85

H. T. MILLER'S SHIP ADZES

No. 4-A-978

No. 4-A-978. Made of the best grade of cast steel, bronze finish, polished bits. Prices do not include handles.

Width Cut Inches	Price Each
4½	$0.95
4½	1.05

When you compare our prices with others — consider our guarantee is that all goods are absolutely as represented or your money refunded.

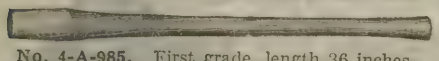
HANDLES, PICKS, BARS AND HAMMERS

We offer hickory handles in two grades, both of which are from selected hickory.
FIRST GRADE are strictly clear, sand papered and polished and are regularly used by the mechanic.
SECOND GRADE are carefully selected, nicely finished and good general purpose handles, somewhat discolored and have few defects, but in every sense serviceable.

SINGLE BIT AXE HANDLES

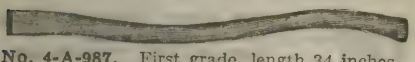
No. 4-A-981. First grade, length 36 inches.
Price, each $0.11
Price per doz 1.20
No. 4-A-982. First grade, length 28 inches.
Price, each $0.10
Price, per doz 1.10
No. 4-A-983. Second grade, length 36 inches.
Price, each $0.07
Price, per doz ..... .75
No. 4-A-984. Second grade, length 28 inches.
Price, each $0.06
Price, per doz ..... .70

DOUBLE BIT AXE HANDLES



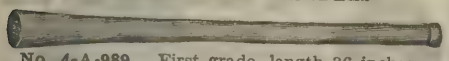
No. 4-A-985. First grade, length 36 inches.
Price, each $0.14
Price, per doz 1.60
No. 4-A-986. Second grade, length 36 inches.
Price, each $0.06
Price, per doz ..... .60

ADZE HANDLES



No. 4-A-987. First grade, length 34 inches.
Price, each $0.16
Price, per doz 1.65
No. 4-A-988. Second grade, length 34 inches.
Price, each $0.06
Price, per doz ..... .60

PICK OR MATTOCK HANDLES



No. 4-A-989. First grade, length 36 inches.
Price, each $0.09
Price, per doz 1.00
No. 4-A-990. Second grade, length 36 inches.
Price, each $0.06
Price, per doz ..... .60

HAMMER HANDLES

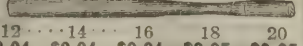
No. 4-A-991. First grade.

Length, inches	12	13	14
Price, each	$0.03	$0.03	$0.03
Price, per doz	.32	.32	.32

No. 4-A-992. Second grade.

Length, inches	12	13	14
Price, each	$0.02	$0.02	$0.02
Price, per doz	.18	.18	.18

MACHINISTS HAMMER HANDLES



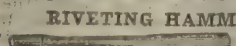
No. 4-A-993. First grade.

Length, inches	12	14	16	18	20
Price, each	$0.04	$0.04	$0.04	$0.05	$0.05
Price, per doz.	.36	.36	.36	.55	.55

No. 4-A-994. Second grade.

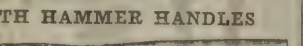
Length, inches.	12	14	16	18	20
Price, each	$0.02	$0.02	$0.02	$0.02½	$0.02½
Price, per doz.	.06	.18	.18	.20	.20

RIVETING HAMMER HANDLES



No. 4-A-995. First grade, length 14 in.
Price, each $0.04
Price, per doz ..... .36
No. 4-A-996. Second grade, length 14 inches.
Price, each $0.02
Price, per doz ..... .18

BLACKSMITH HAMMER HANDLES



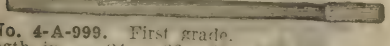
No. 4-A-997. First grade.

Length, inches	12	14	16	18	20
Price, each	$0.04	$0.04	$0.04	$0.05	$0.05
Price, per doz.	.36	.36	.36	.55	.55

No. 4-A-998. Second grade.

Length, inches	12	14	16	18	20
Price, each	$0.02	$0.02	$0.02	$0.02½	$0.02½
Price, per doz	.18	.18	.18	.20	.20

SLEDGE HANDLES



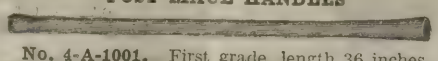
No. 4-A-999. First grade.

Length, in.	24	26	28	30	32	34	36
Each	$0.07	.07	.08	.09	.09	.10	.10
Dozen	.75	.75	.85	1.00	1.00	1.10	1.10

No. 4-A-1000. Second grade.

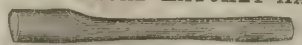
Length, in.	24	26	28	30	32	34	36
Each	$0.05	.05	.05	.05	.06	.06	.06
Dozen	.45	.48	.50	.55	.57	.60	.60

POST MAUL HANDLES



No. 4-A-1001. First grade, length 36 inches.
Price, each $0.09
Price, per doz 1.00
No. 4-A-1002. Second grade, length 36 inches.
Price, each $0.06
Price, per doz ..... .60

BROAD HATCHET HANDLES



No. 4-A-1003. First grade.

Length, inches	16	17	18
Price, each	$0.05	$0.06	$0.07
Price, per doz	.50	.60	.68

No. 4-A-1004. Second grade.

Length, inches	16	17	18
Price, each	$0.03	$0.04	$0.05
Price, per doz	.30	.42	.50

HATCHET HANDLES

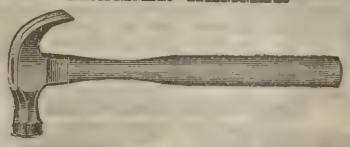
No. 4-A-1005. First grade.

Length, inches	13	14	15
Price, each	$0.04	$0.05	$0.06
Price, per doz	.45	.54	.60

No. 4-A-1006. Second grade.

Length, inches	13	14	15
Price, each	$0.02	$0.03	$0.04
Price, per doz	.20	.30	.40

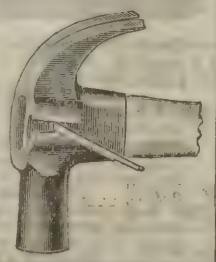
PREMIER HAMMER



No. 4-A-1086. The highest grade, finest finish, and easily the best hammer on the market. Made of finest grade, crucible steel, octagon poll and full nickel plated finish. Handle is of the finest second growth hickory, polished ebonized finish, fitted to head with special steel wedge and will not become loose, absolutely guaranteed to be satisfactory in every respect or money refunded.

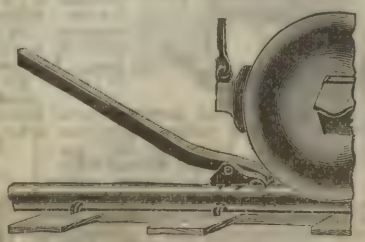
Size No.	1	1½
Weight, not including handle, pounds	1¼	1
Price, each	$0.67	$0.66

ADZE-EYE NAIL-HOLDING HAMMER



No. 4-A-1087. Made of finest grade of crucible steel, will hold a nail up to 10D. Handles are of the finest selected second growth hickory, fitted to head with special steel wedge and will not become loose. Weight without handle, 1 pound 3 ounces. Price, with handle $0.76

EASY CAR PUSHER



No. 4-A-1011. Will work on any track and under any brake. The strongest and most desirable Car Pusher on the market. The bar is made of steel. The wearing parts can be easily replaced at a trifling cost, it will therefore last a lifetime. Its efficiency is not affected by icy, wet or greasy rail.
Price, each $3.75

PICKS

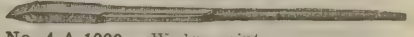
No. 4-A-1007. Railroad picks. High grade steel, fully guaranteed. Weight 5 and 6 lbs.
Price, each $0.30
Price, per doz 3.30

No. 4-A-1008. Drifting Picks. High grade steel, fully guaranteed.

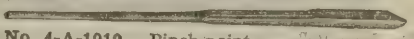
Weight, lbs	4	4½	5
Price, each	$0.35	$0.37	$0.39
Price, per doz	3.80	4.00	4.25

CROWBARS

Made of crucible steel, properly balanced, nicely finished, each bar fully guaranteed.



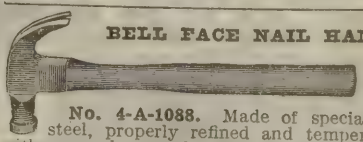
No. 4-A-1009. Wedge point.



No. 4-A-1010. Pinch point.

Weight, lbs	12	16	20
Price, each	$0.35	$0.45	$0.55

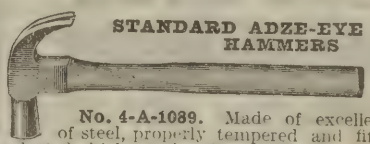
BELL FACE NAIL HAMMERS



No. 4-A-1088. Made of special crucible steel, properly refined and tempered, fitted with second growth selected hickory handle, properly fitted and guaranteed to give perfect satisfaction.

Size	1	1½	2
Weight, ounces (not including handle)	20	16	13
Price, each	$0.42	$0.41	$0.40

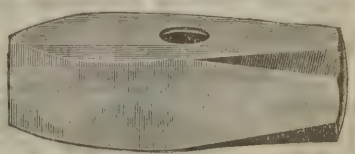
STANDARD ADZE-EYE NAIL HAMMERS



No. 4-A-1089. Made of excellent grade of steel, properly tempered and fitted with selected hickory handles. The best hammer values ever offered. We recommend these hammers for general work and guarantee they will give good satisfaction.

Size	1	1½	2	3
Weight, ounces (not including handle)	20	16	13	7
Price, each	$0.25	$0.24	$0.23	$0.50

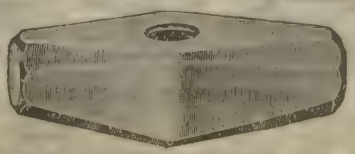
STONE SLEDGES



No. 4-A-1055. Made of highest grade cast steel, each sledge fully guaranteed. Handles not included.

Weight, pounds	8	10	12	14	16
Price, each	$0.42	$0.52	$0.62	$0.72	$0.82

DRILLING OR STRIKING HAMMERS

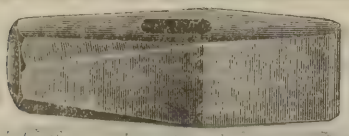


No. 4-A-1056. Made of highest grade cast steel. Each hammer fully guaranteed. Handles not included.

Weight, pounds	3	3½	4	4½	5
Price, each	$0.24	$0.27	$0.32	$0.35	$0.40

STONE MASON TOOLS

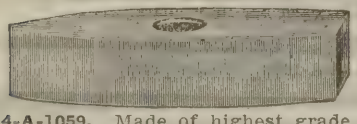
BRAULING OR STONE HAMMERS



Made of highest grade cast steel, polished faces. Each hammer fully guaranteed. Handles not included.
No. 4-A-1057. Single Face.
No. 4-A-1058. Double Face.

Weight pounds	Price each
2½	$0.27
3	.30
4	.36
4½	.41
5	.45
6	.48
8	.64
10	.80
12	.90
14	1.05
16	1.20

MASONS' HAMMERS



No. 4-A-1059. Made of highest grade cast steel, polished faces. Each hammer fully guaranteed. Handles not included.

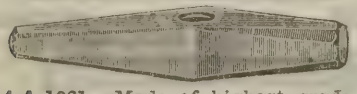
Weight, pounds.	3	3½	4	4½	5
Price, each....	$0.30	0.35	0.40	0.45	0.50

STONE AXES

No. 4-A-1060. Made of highest grade cast steel. Each ax fully guaranteed. Handles not included.

Weight, pounds	3	4	5	6	8	10
Price, each....	$0.27	0.36	0.45	0.54	0.72	0.90

RAILROAD TRACK MAULS



No. 4-A-1061. Made of highest grade cast steel. Each maul fully guaranteed. Handles not included.

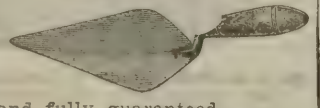
Weight, pounds.	5	6	8	10	12
Price, each....	$0.25	0.36	0.48	0.60	0.72

POINTING TROWELS

No. 4-A-1062. Polished steel blade, nicely finished.

Length, inches.....	4	4½	5
Price, each.....	$0.15	0.19	0.20

BRICK TROWELS



No. 4-A-1063. Made of highest grade steel, well finished, properly shaped and fully guaranteed.

Length of blade, inches	10	10½	11
Price, each.....	$0.34	0.37	0.39

CORNER TROWELS

No. 4-A-1064. Length 6 inches, nicely finished, guaranteed tool.
Price, each.....$0.35

PLASTERING TROWEL

No. 4-A-1065. Made of highest grade steel, well finished, guaranteed in every way to be a first class trowel.

Size, inches.....	10	10½	11	12
Price, each.....	$0.33	0.39	0.45	0.50

BRICK CHISELS

No. 4-A-1066. Made of highest grade tool steel, width of cut 4 inches, weight 20 ounces, each ..$0.20

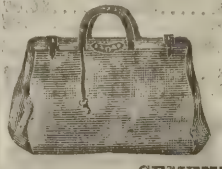
TUCK POINTING TOOL

No. 4-A-1067. For pointing or beading mortar or cement.

Size, inches.....	3/16	¼	5/16	⅜	½

Be sure and state size you prefer.
Price, each $0.35

MASONS' TOOL BAGS



No. 4-A-1068. Made of heavy weather-proof canvas. Steel frames, strong leather handles and straps. A first class bag.

Size, inches	20	24
Price, each	$1.50	1.75

CEMENT TOOLS

To meet the requirements of our customers we offer cement tools in both iron and bronze metal. The iron tools are finely made, are extra smooth and very heavily nickel plated, in fact, the very best that it is possible to manufacture, and on account of the heavy nickel plating they are not as easily affected by rust as most of the iron cement tools that are manufactured. The bronze metal tools are the finest it is possible to produce and are absolutely impervious to moisture, therefore will not rust or corrode and will last a life-time.

SIDEWALK GROOVERS

Curved at both ends.

No. 4-A-1069. Iron sidewalk groover or jointer, nickel plated, 6 inches long, 2⅞ inches wide, each $0.31

No. 4-A-1070. Solid bronze metal sidewalk groover or jointer, 6 inches long, 2⅞ inches wide, each $0.66

SIDEWALK GROOVERS

Curved at one end.

No. 4-A-1071. Nickel Plated iron sidewalk groover or jointer, 6 inches long, 2 inches wide, price, each.$0.33

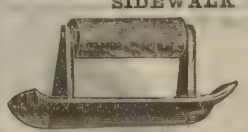
No. 4-A-1072. Solid Bronze Metal sidewalk groover or jointer, 6 inches long, 3 inches wide, price, each $0.67

DRIVEWAY GROOVERS

No. 4-A-1073. Nickel Plated iron driveway groover, 6 inches long, 2⅞ inches wide, price, each $0.36

No. 4-A-1074. Solid Bronze metal driveway groover, 6 inches long, 2⅞ inches wide, price, each...$0.69

SIDEWALK EDGERS

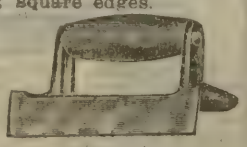


No. 4-A-1075. Nickel Plated iron sidewalk edgers, ⅜-inch radius, 6 inches long, 2⅞ inches wide, price, each $0.30

No. 4-A-1076. Solid Bronze metal sidewalk edgers, ⅜-inch radius, 6 inches long, 2⅞ inches wide, price, each.....$0.65

SQUARE EDGERS

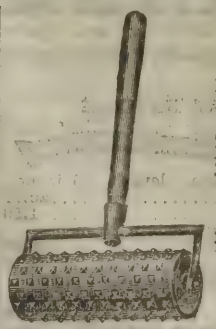
For making square edges.



No. 4-A-1077. Nickel Plated iron square edgers, 6 inches long, 3 inches wide, price, each $0.45

No. 4-A-1078. Solid Bronze metal square edgers, 6 inches long, 3 inches wide, price, each.....$0.80

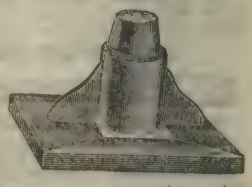
INDENTATION ROLLERS



For roughing or indenting sidewalks.
Size 4 inches in diameter, 10 inches long.
No. 4-A-1079. Nickel Plated Iron Indentation Roller. Price, each $2.20
No. 4-A-1080. Solid Bronze Metal Indentation Roller. Price, each $6.00

TAMPERS

No. 4-A-1081. Made of Gray Cast Iron, Smooth Finish Face, size 8 inches, fitted with a 4-foot hardwood handle, weight 19 pounds. Price, each $0.78



POST HOLE AUGERS AND DIGGERS

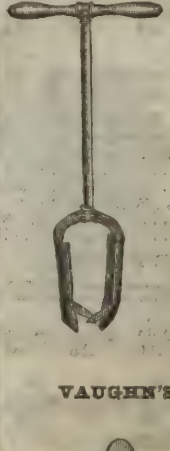
"EUREKA" POSTHOLE DIGGER

No. 4-A-1082. Made with hardwood handles, 9-inch cast steel blade, properly tempered, malleable iron shanks, length 5 feet, weight 8½ pounds, price, each.$0.65

INVINCIBLE POSTHOLE DIGGER

No. 4-A-1083. Blade and shanks are forged from one solid piece of steel, length of blade 9 inches, fitted with hardwood handles, length 5 feet, weight 9½ pounds, price, each.....$0.75

IWAN POSTHOLE AND WELL AUGER



No. 4-A-1084. Works more rapidly than any other auger made and can be used in any kind of soil, regardless of whether it is wet or dry, very desirable for boring shallow wells, length range 4 to 6 feet, according to diameter of auger.

Size.....	6	8
Price, each....	$1.90	2.00
	9	10
	$2.15	2.50

VAUGHN'S POSTHOLE AUGER

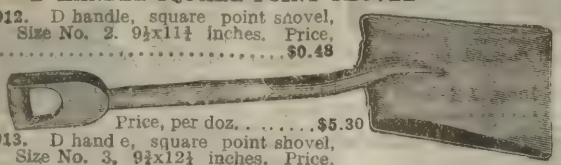
No. 4-A-1085. Solid Steel blades.

Size.....	6	7	8	9
Price, each.....	$0.57	0.58	0.59	0.60

SHOVELS, SPADES AND SCOOPS

Our line of Shovels, Spades and Scoops are made in an excellent manner and represent the best shovel values on the market. Each shovel is guaranteed to be perfect in construction and made of special selected shovel steel. The handles are thoroughly seasoned and are first grade.

D HANDLE SQUARE POINT SHOVEL

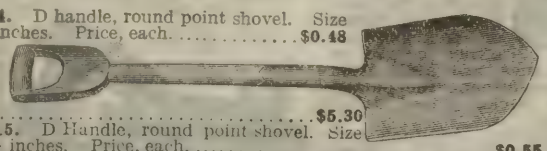


No. 4-A-1012. D handle, square point shovel, full polished. Size No. 2. 9½x11¼ inches. Price, each **$0.48**

Price, per doz. **$5.30**

No. 4-A-1013. D handle, square point shovel, full polished. Size No. 3, 9½x12¼ inches. Price, each **$0.55**
Price, per doz. **6.00**

D HANDLE ROUND POINT SHOVEL

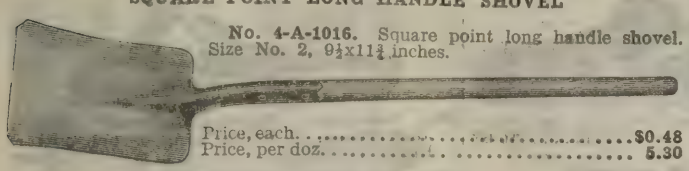


No. 4-A-1014. D handle, round point shovel. Size No. 2, 9½x12¼ inches. Price, each **$0.48**

Price, per doz. **$5.30**

No. 4-A-1015. D Handle, round point shovel. Size No. 3, 9½x13¼ inches. Price, each **$0.55**
Price, per doz. **6.00**

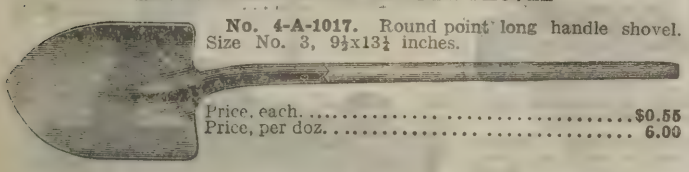
SQUARE POINT LONG HANDLE SHOVEL



No. 4-A-1016. Square point long handle shovel. Size No. 2, 9½x11¼ inches.

Price, each **$0.48**
Price, per doz. **5.30**

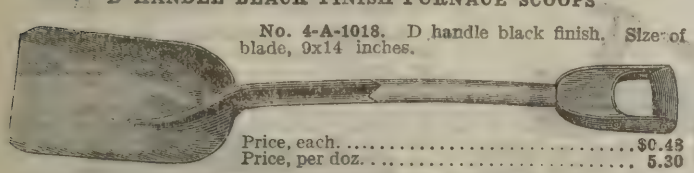
ROUND POINT LONG HANDLE SHOVEL



No. 4-A-1017. Round point long handle shovel. Size No. 3, 9½x13¼ inches.

Price, each **$0.55**
Price, per doz. **6.00**

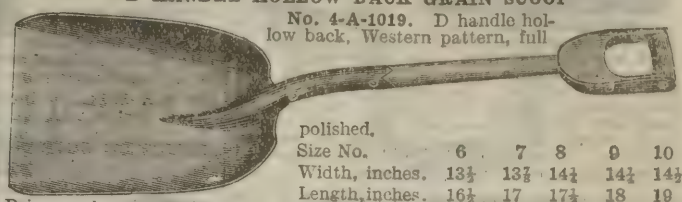
D HANDLE BLACK FINISH FURNACE SCOOPS



No. 4-A-1018. D handle black finish. Size of blade, 9x14 inches.

Price, each **$0.48**
Price, per doz. **5.30**

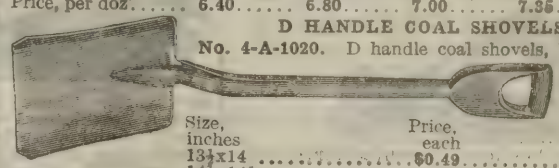
D HANDLE HOLLOW BACK GRAIN SCOOP



No. 4-A-1019. D handle hollow back, Western pattern, full polished.

Size No.	6	7	8	9	10
Width, inches.	13½	13⅞	14¼	14¼	14½
Length, inches.	16½	17	17½	18	19
Price, each	$0.59	$0.63	$0.66	$0.70	$0.75
Price, per doz.	6.40	6.80	7.00	7.35	8.00

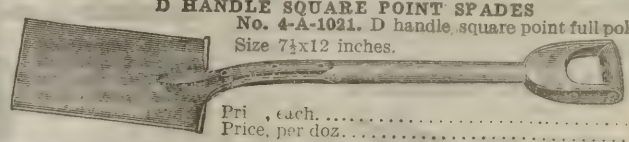
D HANDLE COAL SHOVELS



No. 4-A-1020. D handle coal shovels, black finish.

Size, inches	Price, each	Price, per doz.
13¼x14	$0.49	$5.00
14¼x14½	.53	5.75
14¼x15½	.55	6.00

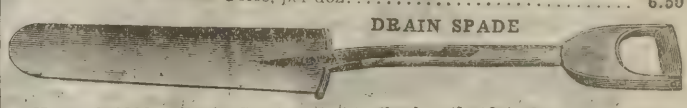
D HANDLE SQUARE POINT SPADES



No. 4-A-1021. D handle square point full polished. Size 7½x12 inches.

Price, each **$0.60**
Price, per doz. **6.50**

DRAIN SPADE

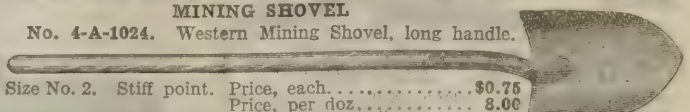


No. 4-A-1022. Drain Spade. D handle, length 18 inches full polished.
Price, each **$0.90**
Price, per doz. **9.50**

POST HOLE SPADE

No. 4-A-1023. Post Hole Spade. D handle, size 6½x18 inches, full polished.
Price, each **$0.90**
Price, per doz. **9.50**

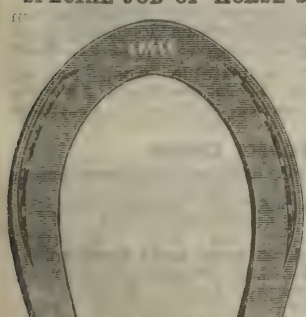
MINING SHOVEL



No. 4-A-1024. Western Mining Shovel, long handle.

Size No. 2.	Stiff point.	Price, each.	$0.75
		Price, per doz.	8.00
Size No. 2.	Half spring.	Price, each	.75
		Price, per doz.	$8.00
Size No. 2.	Full spring.	Price, each.	.75
		Price, per doz.	8.00

SPECIAL JOB OF HORSE SHOES.



We bought from the Trustees of the Eagle Horse Shoe Co. their entire stock on hand of new horse shoes. This stock although not complete contains sufficient assortment to enable you to obtain practically anything you may require. All shoes are put up 100 lbs. to the keg. The quality is as good as any shoe on the market. Our stock is fast disappearing and would advise prompt action if interested in the following. We can furnish the following ones:

Extra light front and hinds.
Light front and hinds.
We practically have all sizes from 0 to 7.

No. 4-A-1677. Price for shoes straight sizes, one kind only to a keg, per 100 lbs. **$3.50**

No. 4-A-1678. Mixed shoes all kinds to a keg, just as they come, price per keg .. **$3.00**

1 Complete Pail. 2 Body of Pail. 3 Cover. 4 Coffee Can. 5 Alcohol Lamp. Frying Pan. 7 Tray.

HOT LUNCH DINNER PAILS

Bought at Underwriters' sale. More or less surface rust. Put up in original crates just as they came from the factory. Packed one dozen to a crate. The illustration shows perfectly just what this pail consists of. It is the only dinner pail so constructed to provide for heating tea or coffee and vegetables. Regular retail price is $1.00. In single lots each **$0.25**
In dozen lots each **$0.20**
In six dozen lots each **$0.15**

ADJUSTABLE IRON BENCH PLANES

Corrugated Bottom

The cutters are extra heavy, made from the very best tool steel, properly ground and tempered to hold a lasting cutting edge and require less grinding than other plane irons. The body of the plane is made of a fine tough, gray iron, nicely finished. The bottom of the planes are perfectly smooth and true. Handles and knobs are genuine mahogany. The cuts can be easily regulated to cut a shaving of required thickness. Every plane is absolutely guaranteed to be satisfactory or money refunded.

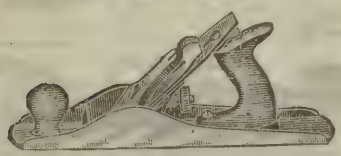
IRON SMOOTH PLANES

9 inches long, 2-inch cutter

No. 4-A-1090. Smooth Bottom. Price, each **$1.25**

No. 4-A-1091. Corrugated Bottom. Price, each **$1.25**

IRON FORE PLANE



18 inches long, 2⅜-inch cutter

No. 4-A-1094. Smooth Bottom. Price each **$1.80**

No. 4-A-1095. Corrugated Bottom. Price, each **$1.80**

IRON JACK PLANE

No. 4-A-1092.

14 inches long, 2-inch cutter. Smooth Bottom. Price, each **$1.45**

No. 4-A-1093. Corrugated Bottom. Price, each **$1.48**

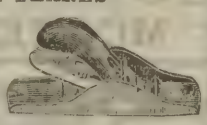
IRON JOINTER PLANE

22 in. long, 2⅜-inch cutter.

No. 4-A-1096. Smooth Bottom. Price, each **$2.10**

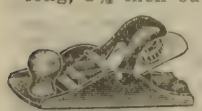
No. 4-A-1097. Corrugated Bottom. Price, each **$2.10**

IRON BLOCK PLANES



Our line of block planes are carefully made and are in every sense a first class tool. The cutters are made of a high grade tool steel, properly ground and tempered. The surfaces are perfectly smooth and each plane is fully guaranteed.

No. 4-A-1110. Iron Block Plane, 5½ inches long, 1¼-inch cutter. Price..... **$0.23**

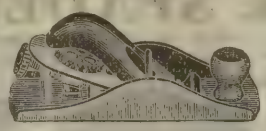


No. 4-A-1111. Iron Block Plane, length 7 inches, 1¾-inch cutter. Price... **$0.30**

No. 4-A-1112. Adjustable Iron Block Plane, length 5½ inches, 1¼-inch cutter. Price.. **$0.28**

No. 4-A-1113. Adjustable Iron Block Plane, length 7 inches, 1¾-inch cutter. Price.. **$0.39**

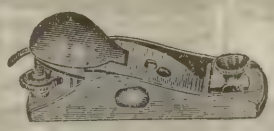
DOUBLE END IRON BLOCK PLANES



Made with two slots and two seats for cutter. By changing the cutter and lever from one end to the other, it can be used to plane into close corners which cannot be reached by an ordinary plane.

No. 4-A-1114. 8 inches long, 1¾-inch cutter. Price..... **$0.39**

KNUCKLE JOINT LEVER IRON BLOCK PLANE



With improved throat, adjustable by means of which the opening for cutter may be closed or enlarged for either coarse or fine work. These planes are also fitted with a new lateral adjustment for cutter. Finely finished with nickel-plated trimmings.

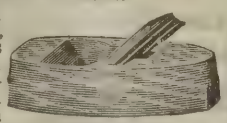
No. 4-A-1115. 6 inches long, 1¾-inch cutter. Price..... **$0.75**

ADJUSTABLE IRON BLOCK PLANE

With improved throat adjustment for fine or coarse work, also lateral adjustment.

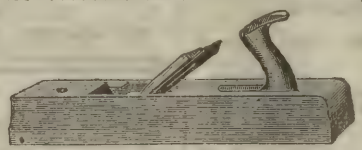
No. 4-A-1116. 6 inches long, 1¾-inch cutter. Price..... **$0.67**

WOOD BENCH PLANES



Made of selected seasoned Beechwood, double cutting irons made of fine tool steel, properly tempered and ground polished Lignum Vitae Start. Every plane guaranteed perfect and to be entirely satisfactory.

No. 4-A-1105. Wood Smooth Plane, 8 inches long, with 2-inch double cutting iron. Price **$0.56**



No. 4-A-1106. Wood Jack Plane, 16 inches long, with 2¼-inch double cutting irons. Price **$0.65**

No. 4-A-1107. Wood Fore Planes, 22 inches long, with 2½-inch double cutting iron. Price..... **$1.00**

No. 4-A-1108. Wood Jointer Plane, 24 inches long, with 2½-inch double cutting iron. Price..... **$1.10**

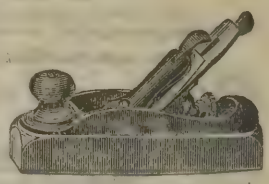
No. 4-A-1109. Wood Jointer Plane, 26 inches long, with 2⅝-inch double cutting iron. Price..... **$1.14**

PLANE GAUGES

For attaching to planes to guide them in planing bevels or planing square joints without the use of a tri-square or bevel.

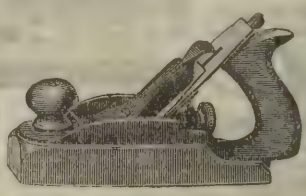
No. 4-A-1122. For wood or iron planes, easily attached, nicely finished with nickel-plated trimmings. Price..... **$1.25**

ADJUSTABLE WOOD PLANES WITH IRON TOP



Cutters are the same as used in our iron bench planes. The best that it is possible to manufacture. The adjustment feature is also the same. The bottoms are made of thoroughly seasoned Beechwood. Every plane is most carefully manufactured and is guaranteed to give entire satisfaction for either hard or soft wood.

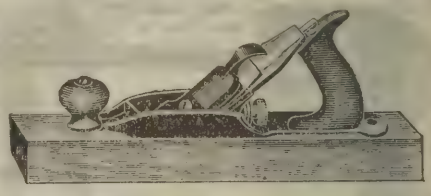
No. 4-A-1098. Adjustable wood bottom smooth plane, 8 inches long, 1¾-inch cutter. Price..... **$0.75**



No. 4-A-1099. Adjustable wood bottom smooth plane, 9 inches long, 2-inch cutter. Price, **$0.95**

No. 4-A-1100. Adjustable wood bottom Jack Plane, 15 inches long, 2-inch cutter. Price **$0.84**

No. 4-A-1101. Adjustable wood bottom Jack Plane, 15 inches long, 2⅛-inch cutter. Price..... **$0.95**



No. 4-A-1102. Adjustable wood bottom fore plane, length 20 inches, 2⅜-inch cutter. Price..... **$1.05**

No. 4-A-1103. Adjustable wood bottom Jointer Plane, 24 inches long, 2⅜-inch cutter. Price..... **$1.15**

No. 4-A-1104. Adjustable wood bottom Jointer Plane, 26 inches long, 2⅜-inch cutter. Price..... **$1.20**

PLANE IRONS

For wood bottom and iron bench planes.

No. 4-A-1117. Single Irons.

Width inches—Price					
1¾	2	2⅛	2¼	2⅜	2⅝
$0.18	$0.20	$0.22	$0.24	$0.26	$0.28

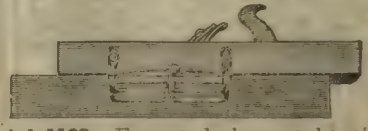
No. 4-A-1118. Double Plane Irons.

Width inches—Price					
1¾	2	2⅛	2¼	2⅜	2⅝
$0.30	$0.33	$0.34	$0.37	$0.39	$0.42

PLANE IRONS FOR IRON BLOCK PLANES

No. 4-A-1119.

Width inches	Price
1¼	$0.12
1¾	$0.15

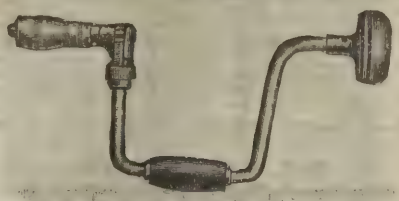


No. 4-A-1123. For wood planes only, nicely finished with nickel-plated trimmings. Price **$0.87**

BIT BRACES

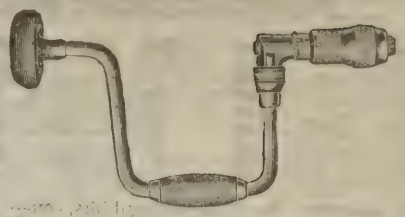
No. 4-A-1129. The best made bit brace ever offered at anything like the price. The holding parts are made of the best semi-steel castings with cocobola head and handle. Steel sweep finely finished and nickel plated.

Sweep, inches	Price, each
8	$0.37
10	.41
12	.45



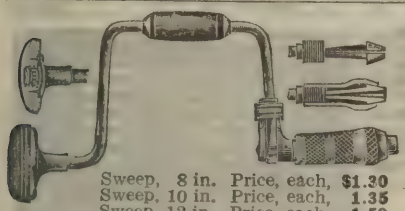
No. 4-A-1130. A fine ratchet brace at less than half the usual price. Has right and left two-pawl ratchets. Holding parts are made of the best semi-steel castings with hardened jaws. Polished hardwood head and handle. ¼-inch steel sweep, finely finished and nickel-plated.

Sweep, inches	Price, each
10	$0.56
12	.60



No. 4-A-1131. Ratchet bit brace, polished, cocobola head and handle. Holding parts made of the best cast steel, jaws are hardened steel 7/16-inch sweep, extra fine finish and full nickel plated.

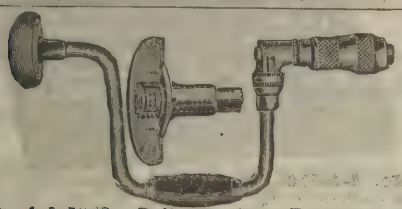
Sweep, inches	Price, each
10	$0.75
12	.85



Sweep, 8 in. Price, each, **$1.30**
Sweep, 10 in. Price, each, **1.35**
Sweep, 12 in. Price, each, **1.50**

PREMIER BALL BEARING BIT BRACE

No. 4-A-1133. The only brace manufactured with a chuck welded solid into the head and cannot become loose or broken. We guarantee to replace without cost any Premier ratchet brace that proves in any way defective, or if not satisfactory can be returned at our expense and your money will be immediately refunded. **The Chucks** are made of special tool steel, spring tempered and being welded into the head cannot become loose or broken. The **Sweep** is made of ¼-inch steel bent cold and is the strongest possible to manufacture. The **Head** and **Handles** are made of polished Lignum Vitae with special steel ball bearings. The chuck will take straight round shank drills as well as regular auger bits. The **Sleeve** is of extra length finely finished. All metal parts are full nickel plated. Not only is this the finest brace made, it is the strongest and best brace possible to produce and is recommended for the use of the most critical mechanic.



No. 4-A-1132. Ball Bearing Ratchet Bit Braces, polished cocobola head and handle, ½-inch cold drawn steel sweep, will take straight round shank drills as well as regular auger bits. The greatest bit brace value ever offered.

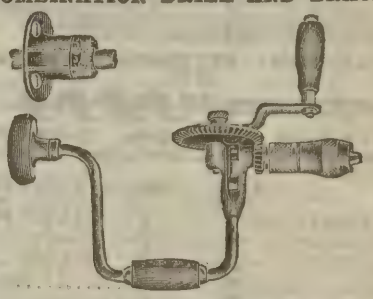
Sweep, inches	Price, each
8	$1.00
10	1.00
12	1.15

SPOFFORD BRACES

No. 4-A-1135. Solid drop forged cast steel with polished cocobola head and handle. Holds square shank drills and bits, nickel plated finish.

Sweep, inches	Price, each
8	$0.70
10	.80
12	.90
14	1.00

COMBINATION DRILL AND BRACE



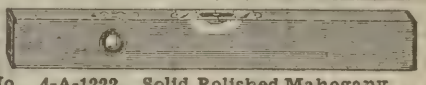
No. 4-A-1134. Has ball bearing head. Sweep is made of cold rolled steel alligator jaws, forged from steel, will hold straight round shank drills as well as regular drill bits. By removing the hand drill you have a regular ball bearing ratchet bit brace with polished cocobola head and handle full nickel plated finish. Price.....$2.35

PLUMBS AND LEVELS

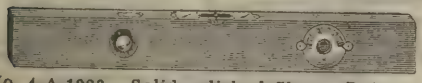
Extreme care is taken in the manufacture of our plumbs and levels. Each instrument is carefully tested as to its accuracy before it leaves the hands of the manufacturer. The wood work is thoroughly seasoned and hand polished. We offer this line to those who want the best value possible to secure and instruments that are accurate and accomplish the purpose for which they are designed. Absolute satisfaction is guaranteed or money refunded.

No. 4-A-1220. Polished Cherry Plumb and Level, nickel plated brass arch top plate, two side views, proved glasses, length 26, 28 and 30 inches. Price.....$0.45

No. 4-A-1221. Polished Cherry Patent adjustable plumb and level, brass arch top plate, brass ends, two brass lipped side views, proved glasses, length 26, 28 and 30 inches. Price, each.....$0.75



No. 4-A-1222. Solid Polished Mahogany Patent Adjustable plumb and level, brass arch top plate, two brass lipped side views, brass ends, proved glasses, finely finished and a first class instrument, lengths 26, 28 and 30 inches. Price, each.....$1.20



No. 4-A-1223. Solid polished Cherry Patent Adjustable plumb and level with graduated adjustments to work at any level or elevation required. Especially desirable and a great aid in cutting rafters or lumber to be set at an angle. Has brass arch top plates, brass lipped side views and heavy brass ends, length 28 inches. Price.....$1.25

No. 4-A-1224. Solid Mahogany plumb and level. The best plumb and level that it is possible to produce. Made with extra heavy brass trimmings, has brass arch top plate, brass lipped side views and heavy brass ends. A better level cannot possibly be manufactured. Length 26, 28 and 30 inches. Price.....$2.25

MASON'S ADJUSTABLE PLUMB AND LEVEL

No. 4-A-1225. Polished Cherry brass arch plate, two side views and constructed so that it can be used with plumb bob and line. Price.....$1.05

ADJUSTABLE IRON PLUMB AND LEVEL

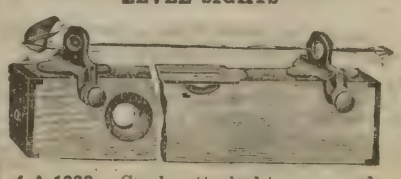
No. 4-A-1226. With a double plumb, Japanned finish, with nickel plated trimmings, guaranteed accurate.

Length, sizes, inches	12	18	24
Price, each	$1.20	$1.35	$1.50

POCKET LEVELS

No. 4-A-1227. Can be readily attached to steel square or straight edge iron body, brass top plate, proven glasses. Price....$1.08

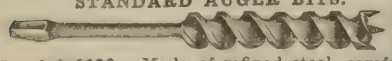
LEVEL SIGHTS



No. 4-A-1228. Can be attached to any wood level. The user has an accurate means of leveling from one given point to another at long distance. Price each.....$0.55

No. 4-A-1229. Level sight for iron levels. Price, each.....$1.85

STANDARD AUGER BITS.

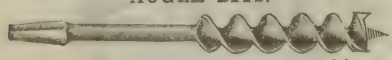


No. 4-A-1136. Made of refined steel, carefully tempered and polished. We recommend these bits for common work and are guaranteed to give good satisfaction.

Size Inch	Price Each	Size Inch	Price Each
1/4	$0.06	1/2	$0.09
5/16	.07	9/16	.10
3/8	.07	5/8	.11
7/16	.08	11/16	.12
1/2	.13	3/4	.16
9/16	.14	1	.17
5/8	.15		

No. 4-A-1137. Set of six standard bits, consisting one each 1/4, 3/8, 1/2, 5/8 and 3/4 inch..... $0.55
No. 4-A-1138. Set of eight standard bits one of each size 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8 and 1 inch.. .78
No. 4-A-1139. Set of 13 standard bits, sizes 1/4 to 1 inch, inclusive..... 1.35

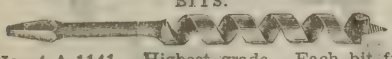
JENNINGS PATTERN EXTENSION LIP AUGER BITS.



No. 4-A-1140. We guarantee these bits to be equal to any manufactured and can be used for boring hard or soft wood and will bore through without splitting the wood. We recommend these bits for mechanics' use. You cannot possibly buy better bits at any price. Your money back if not satisfactory. Full polished finish, hand forged and tempered.

Size Inch	Price Each	Size Inch	Price each
1/4	$0.13	9/16	$0.24
5/16	.14	5/8	.25
3/8	.15	11/16	.27
7/16	.16	3/4	.29
1/2	.17	15/16	.31
9/16	.18	1	.32
5/8	.20		

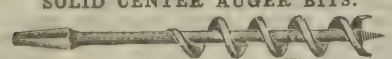
SINGLE TWIST EXTENSION LIP AUGER BITS.



No. 4-A-1141. Highest grade. Each bit fully guaranteed, full polished finish, hand forged and tempered.

Size Inch	Price Each	Size Inch	Price each
1/4	$0.15	9/16	$0.20
5/16	.17	5/8	.21
3/8	.18	11/16	.22
7/16	.19	3/4	.26
1/2	.27	15/16	.32
13/16	.29	1	.35
5/8	.30		

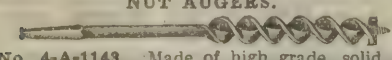
SOLID CENTER AUGER BITS.



No. 4-A-1142. Extension lip. The center stem is solid and cannot choke, fast cutting and equal in material, workmanship and finish to any solid center bit manufactured.

Size Inch	Price Each	Size Inch	Price each
1/4	$0.15	11/16	$0.27
5/16	.16	3/4	.28
3/8	.17	13/16	.31
7/16	.18	7/8	.32
1/2	.20	15/16	.34
9/16	.22	1	.35
5/8	.25		

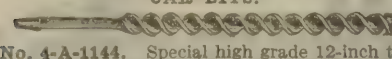
NUT AUGERS.



No. 4-A-1143. Made of high grade, solid cast steel, full polished finish. You cannot secure a smoother and easier cutting bit at any price.

Size Inch	Price Each	Size Inch	Price each
3/8	$0.20	1 1/4	$0.46
1/2	.23	2	.55
3/4	.25	2 1/4	.85
1	.32	2 1/2	1.05
1 1/4	.40	3	1.95

CAR BITS.



No. 4-A-1144. Special high grade 12-inch twist double spur. Made of the best solid cast steel. Each bit fully warranted.

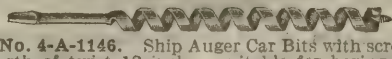
Size Inch	Price Each	Size Inch	Price each
1/4	$0.26	11/16	$0.50
5/16	.27	3/4	.55
3/8	.28	13/16	.58
7/16	.32	7/8	.62
1/2	.36	15/16	.68
9/16	.42	1	.74
5/8	.47		

SHIP AUGER BITS.

No. 4-A-1145. Ship auger bits with screws 4 to 6-inch twist, high grade, fully warranted.

Size Inch	Price Each	Size Inch	Price each
1/4	$0.23	11/16	$0.35
5/16	.24	3/4	.39
3/8	.25	13/16	.42
7/16	.26	7/8	.47
1/2	.27	15/16	.50
9/16	.29	1	.55
5/8	.32		

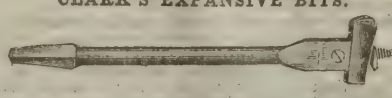
SHIP AUGER CAR BITS.



No. 4-A-1146. Ship Auger Car Bits with screws, length of twist 12 inches, suitable for boring any kind of timber.

Size Inch	Price Each	Size Inch	Price each
5/16	$0.35	7/16	$0.40
3/8	.38	1/2	.43
9/16	.45	13/16	.63
5/8	.48	1	.65
11/16	.50	1 1/16	.68
3/4	.54	1 1/8	.73
13/16	.57	1 3/16	.74
7/8	.60	1 1/4	.77

CLARK'S EXPANSIVE BITS.



Made of high grade steel with special tool steel cutters; properly tempered.
No. 4-A-1147. Small size with two cutters, one boring from 1/4 to 7/8 inch, the other 3/8 to 1 1/2 inches. Price complete..... $0.52
No. 4-A-1148. Large size with two cutters, one boring from 7/8 to 1 3/4 inches and the other boring from 1 3/4 to 3 inches. Price complete.. .73

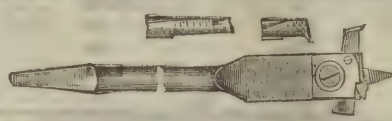
EXTRA CUTTERS FOR SMALL SIZE CLARK'S EXPANSIVE BIT.

No. 4-A-1149. Cuts 1/4 to 7/8 inch. Price..... $0.09
No. 4-A-1150. Cuts 3/8 to 1 1/2 inches. Price... .13

EXTRA CUTTERS FOR LARGE SIZE CLARK'S EXPANSIVE BIT.

No. 4-A-1151. Cuts 7/8 to 1 3/4 inches. Price. $0.17
No. 4-A-1152. Cuts 1 3/4 to 3 inches. Price.. .19

IVES "MEPHISTO" EXPANSIVE BIT.



The only solid stem expansive bit manufactured. Drop forged from the best cast steel, highly polished, especially adapted to boring in hard wood. This bit is a great improvement over the old form of expansive bit, it being so constructed that the cutter will stand the severest strain without creeping, springing, or loosening while boring. The binding screw holds the cutter firmly in place. The small set screw prevents it being forced in either direction, this forming a double locking device so the cutter will not move until screws are released.
No. 4-A-1153. Small size with two cutters, one boring 1/4 to 7/8 inch., the other 7/8 to 1 1/2 inches. Price..... $0.60
No. 4-A-1154. Large size with two cutters, one boring 7/8 to 1 3/4 inches and the other 1 3/4 to 3 inches. Price..... .85

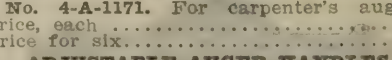
EXTRA CUTTERS FOR SMALL SIZE "MEPHISTO" EXPANSIVE BIT.

No. 4-A-1155. 1/4 to 7/8 inch. Price..... $0.10
No. 4-A-1156. 3/8 to 1 1/2 inches. Price..... .15

EXTRA CUTTERS FOR LARGE SIZE IVES "MEPHISTO" EXPANSIVE BIT.

No. 4-A-1157. 7/8 to 1 3/4 inches. Price..... $0.10
No. 4-A-1158. 1 3/4 to 3 inches. Price..... .21

COMMON AUGER HANDLES.



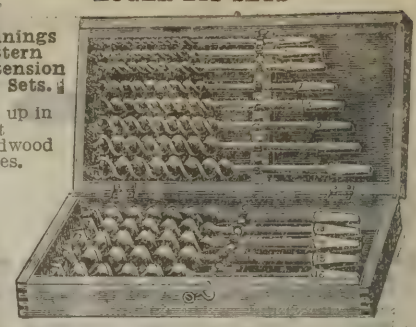
No. 4-A-1171. For carpenter's augers.
Price, each..... 4c
Price for six..... 20c

ADJUSTABLE AUGER HANDLES.

No. 4-A-1172. Used with nut augers. Will fit any size. Price..... 16c

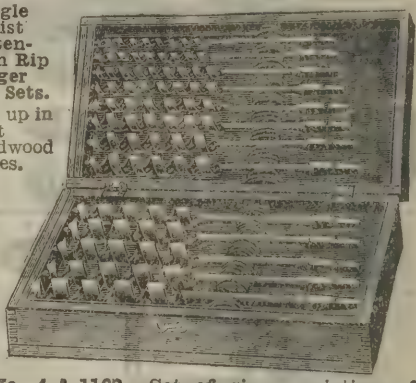
AUGER BIT SETS

Jennings Pattern Extension Lip Sets. Put up in neat hardwood boxes.



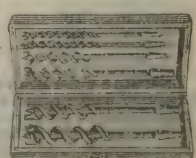
No. 4-A-1159. Set of six, consisting of one of each size 1/4, 3/8, 1/2, 5/8, 3/4 and 1-inch. Price per set..... $1.35
No. 4-A-1160. Set of eight, consisting of one of each size 1/4, 5-16, 3/8, 1/2, 5/8, 3/4, 7/8 and 1-inch. Price per set..... $1.80
No. 4-A-1161. Set of thirteen, consisting of one each size 1/4 to 1-inch, inclusive. Price per set..... $2.95

Single Twist Extension Rip Auger Bit Sets. Put up in neat hardwood boxes.

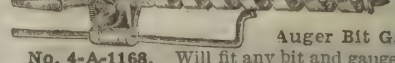


No. 4-A-1162. Set of six, consisting of one each size 1/4, 3/8, 1/2, 5/8, 3/4 and 1-inch. Price per set..... $1.50
No. 4-A-1163. Set of eight, consisting of one each size 1/4, 5-16, 3/8, 1/2, 5/8, 3/4, 7/8 and 1-inch. Price per set..... $2.00
No. 4-A-1164. Set of thirteen, consisting of one each size 1/4 to 1-inch inclusive. Price per set..... $3.15

SOLID CENTER EXTENSION LIP AUGER BIT SETS.



Put up in neat hardwood boxes.
No. 4-A-1165. Set of six, consisting of one each size 1/4, 3/8, 1/2, 5/8, 3/4 and 1-inch. Price per set..... $1.60
No. 4-A-1166. Set of eight, consisting of one each size 1/4, 5-16, 3/8, 1/2, 5/8, 3/4, 7/8 and 1-inch. Price per set..... $2.10
No. 4-A-1167. Set of thirteen, consisting of one each size 1/4 to 1-inch, inclusive. Price per set..... $3.25

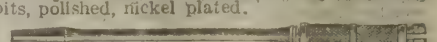


Auger Bit Gauge.

No. 4-A-1168. Will fit any bit and gauges exact depth of hole, adjusted by means of thumb screws, nickel plated finish. Price..... 21c

EXTENSION BIT HOLDERS

No. 4-A-1169. For electricians, plumbers and others who are required to bore holes through floors, partitions, etc. Will follow 3/8-in. or larger bits, polished, nickel plated.



Length, inches	12	18	21
Price, each	70c	82c	95c

PRATT'S RATCHET AUGER.

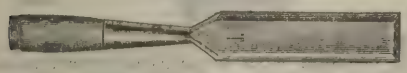
No. 4-A-1170. Handles can be operated with both handles in a horizontal position, but if required to use in close places, one handle can be removed and placed at a right hand angle. Can also be used as a ratchet drill. Handles are polished and the metal parts are nickel plated. Price.. $1.80

PREMIER BEVELED EDGE SOCKET FIRMER CHISELS

No. 4-A-1177. Leather tipped handles. Made of the best tool steel, properly oil tempered, patent ground and honed; will hold a cutting edge longer than any other chisel. Handles are made of selected tough hickory and are warranted in every particular.

Size, inches.	Price, each.
⅛	27c
¼	28c
⅜	30c
½	32c
⅝	34c
¾	36c
⅞	38c
1	40c
1¼	42c
1½	44c
1¾	46c
2	48c

PREMIER BEVEL EDGE SOCKET FRAMING CHISELS



No. 4-A-1186. Made of the best tool steel, properly tempered and finished. Handles are special selected white hickory with ferrule on end to prevent splitting.

Size, inch	⅜	½	¾	1	1¼	1½	1¾	2
Price, each	27c	30c	33c	36c	39c	42c	45c	48c

PREMIER BEVEL EDGE FRAMING CHISEL SETS

No. 4-A-1187. Set of six, consisting of one each size, ¼, ½, ¾, 1, 1¼, 2, put up in neat hardwood box, price per set...$2.60

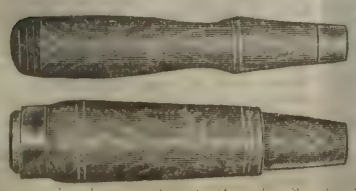
No. 4-A-1188. Set of eight, put up in neat hardwood box, price per set....$3.45

PERFECTION PLAIN EDGE SOCKET FIRMER CHISEL

No. 4-A-1181. With leather tipped handles. We offer these chisels to meet the requirements of those who are not mechanics, but at the same time, have use for good tools. They will compare favorably with most of the best grade chisels on the market. They are made of a special tool steel, carefully and properly tempered, patent ground and hand honed. The handle is strictly first grade selected hickory and each tool in every way warranted. Your money back if not satisfied.

Size, inches.	Price, each.
⅛	19c
¼	20c
⅜	21c
½	22c
⅝	23c
¾	25c
⅞	26c
1	30c
1¼	31c
1½	33c
1¾	36c
2	39c

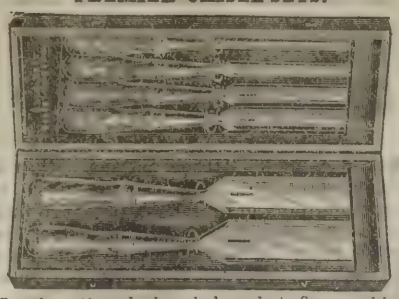
HICKORY CHISEL HANDLES



No. 4-A-1197. Socket firmer chisel handles, leather tipped. Price, each..... 4c
Price, per dozen.....35c

No. 4-A-1198. Socket framing chisel handles, with malleable iron ring. Price, each 3c
Price, per dozen.....27c

PREMIER CHISEL SETS.



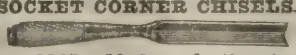
Leather tipped, beveled socket firmer chisels, patent ground and honed.

No. 4-A-1178. Set of six, consisting of one each size ¼, ½, ¾, 1, 1¼ and 2-inch, put up in neat wood boxes. Price, per set.....$2.60

No. 4-A-1179. Set of nine, consisting of one each size ¼, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 2-inch, put up in neat wood box. Price, per set.....$3.70

No. 4-A-1180. Set of twelve, consisting of one each size ¼, ½, ⅜, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾, 2-inch. Put up in neat hardwood box. Price, per set. $4.75

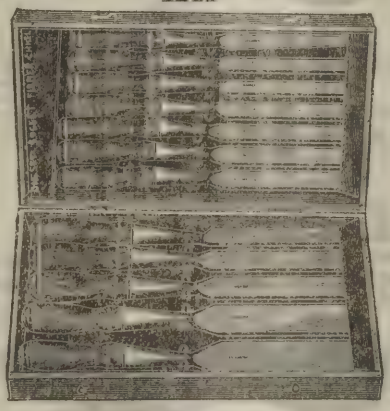
SOCKET CORNER CHISELS.



No. 4-A-1185. Made of the best tool steel. Patent ground and sharpened.

Size, inch	¾	1
Price, each	55c	65c

PERFECTION SOCKET FIRMER CHISEL SETS

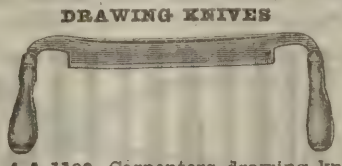


No. 4-A-1182. Set of six, consists of one each size ¼, ½, ¾, 1, 1½, 2-inch. Put up in neat hardwood box. Price per set..$1.85

No, 4-A-1183. Set of nine, consists of one each size ¼, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 2-inch. Put up in neat hardwood box. Price per set $2.65

No. 4-A-1184. Set of twelve, consists of one each ⅛, ¼, ⅜, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾, 2-inch. Put up in neat hardwood box. Price per set.....$3.35

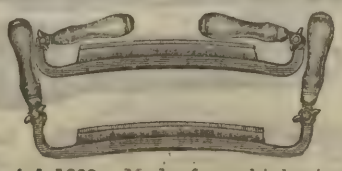
DRAWING KNIVES



No. 4-A-1199. Carpenters drawing knives, made from highest grade crucible cast steel, properly tempered, an excellent cutting tool, polished hardwood handles.

Size, inches	8	10	12
Price, each	40c	45c	50c

FOLDING HANDLE DRAWING KNIVES



No. 4-A-1200. Made from highest grade crucible cast steel, finely finished, guaranteed to give full satisfaction.

Size, inches	8	10	12
Price, each	72c	80c	90c

OIL STONES

No. 4-A-1189. White Washita oil stones, free from grit and hard spots. This is a fast cutting stone, suitable for carpenters and wood workers' tools, not mounted.

Weight approximate lbs.	1	1½
Price, each	24c	36c

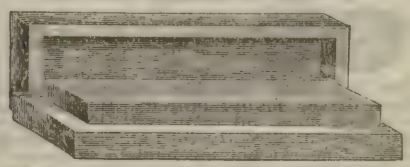
No. 4-A-1190. Ruby Red Washita oil stones, smooth texture, free from grit or hard spots, suitable for any tool. Not mounted.

Weight, approximate lbs.	1	1½
Price, each	36c	54c

No. 4-A-1191. Soft Arkansas oil stones. Used by wood workers, tool and instrument makers and others requiring extremely smooth cutting stones. Guaranteed to be the best stone on the market and will not injure the most delicate instruments. Not mounted.

Weight, approximate lbs.	1	1½
Price, each	90c	$1.32

OIL STONES MOUNTED



No. 4-A-1192. Ruby Red Washita oil stones. Size of stone, 5x2. Weight, 1 lb. Price 42c

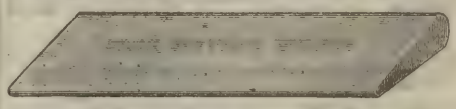
No. 4-A-1193. Size of stone, 6x2. Weight, 1¼ lbs. Price 50c

WHITE WASHITA OIL STONES.

No. 4-A-1194. Size of stone, 5x2 inches. Weight, 1 lb. Price.....43c

No. 4-A-1195. Size of stone, 7x2 inches. Weight, 1½ pounds. Price.....55c

WHITE WASHITA SLIPS



No. 4-A-1196. With round edges, free from grit, extra high quality. Lengths vary from 3½ to 5 inches. Weight about 6 ounces. Price, each.....15c

BIT STOCK DRILL SETS

No. 4-A-1174. Consists of nine bit stock drills, one each of the following sizes: 1-16, 3-32, ⅛, 5-32, 3-16, 7-32, ¼, 5-16, ⅜-inch. Price per set 73c

GERMAN GIMLET BITS

No. 4-A-1175. The finest bits manufactured; made of special high grade steel and finely tempered, especially adapted to the use of those who work in hard woods. Sizes, 2-32, 3-32, 4-32, 5-32, 6-32, 7-32, 8-32, 10-32. Be sure to state size wanted. Price, each 5c
Price, per dozen.....50c

No. 4-A-1162. Price, per set of eight.....35c

INDESTRUCTIBLE SCREW DRIVERS

No. 4-A-1208. Made specially for mechanics' use and is the best screw driver on the market. Blades are made from the very best tool steel, carefully tempered, extending through the handles, and are metal capped, guaranteed not to become loose or out of handle. We will replace any of our indestructible screw drivers without cost that fail to give the utmost satisfaction.

Length blade, inches	3	4	5	6	8	10	12
Price, each	14c	17c	20c	25c	30c	40c	50c

STANDARD SCREW DRIVERS

No. 4-A-1209. Generally known as the Champion pattern. Blades are made of the finest crucible steel and are carefully fitted to handle with steel ferrules. The handle is cherry finished. A first class tool and warranted to give excellent satisfaction.

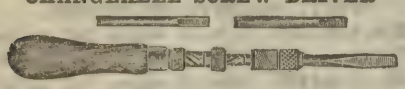
Length of blade, inches	3	4	5	6	8	10	12
Price, each	7c	8c	10c	13c	15c	17c	20c

RATCHET SCREW DRIVER

No. 4-A-1210. The highest grade ratchet screw driver manufactured. Blades made from tool steel, oil tempered. The ratchet teeth are cut directly into the stem of the blade. The ratchet mechanism is made of specially tempered tool steel. Change from right to left is instantly made.

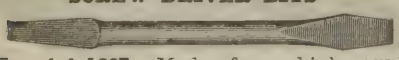
Length of blade, inches	4	5	6	8	10
Price, each	35c	40c	44c	50c	55c

REVERSIBLE, AUTOMATIC, INTERCHANGEABLE SCREW DRIVER



No. 4-A-1211. Has two separate spirals, drives and draws screws automatically. Furnished with three interchangeable blades, length with one spiral out, 16½ inches. Price, each.....$1.05

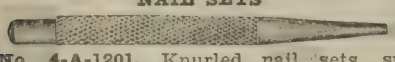
SCREW DRIVER BITS



No. 4-A-1207. Made from high grade crucible steel, carefully tempered and finished.

Size, inches	4½	5	6	6½
Price, each	15c	16c	17c	18c

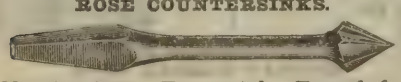
NAIL SETS



No. 4-A-1201. Knurled nail sets, specially tempered at both ends to withstand hard service, cup points. Size, inch, 2-32, 3-32, 4-32, 5-32. Price, each.....5c
Price per dozen 55c

No. 4-A-1202. Price per set of four, one of each size 18c

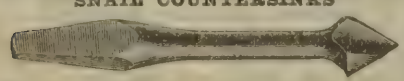
ROSE COUNTERSINKS.



No. 4-A-1203. For metal. Forged from high grade tool steel, properly tempered.

Size, inch.	½	⅝
Price, each	16c	17c

SNAIL COUNTERSINKS



No. 4-A-1204. For wood workers, forged from high grade tool steel, properly tempered.

Size, inch.	½	⅝
Price, each	15c	16c

REVERSIBLE COUNTERSINK AND DOWEL POINTER

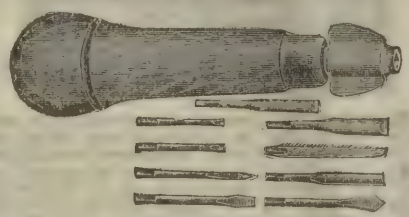
No. 4-A-1205. Barber patent. Cutting head is reversible and can be used for sharpening pins or dowels; cutters are made of fine tool steel and will hold a fine, keen cutting edge. A very practical tool. Price, each 15c

COUNTERSINKS WITH GAUGE

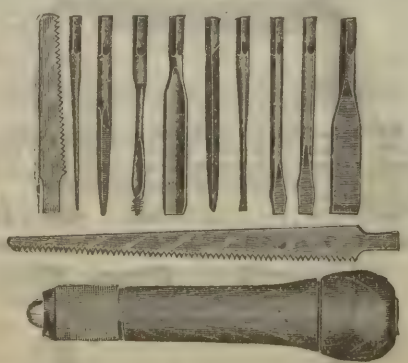
No. 4-A-1206. For wood workers. Gauge makes a positive stop, made of crucible steel, nickel plated. Price, each.....20c

HOLLOW HANDLE TOOL SETS

No. 4-A-1212. With cocobola handle. 10 hand forged, finely tempered tools, highly finished and fully warranted. Price...29c

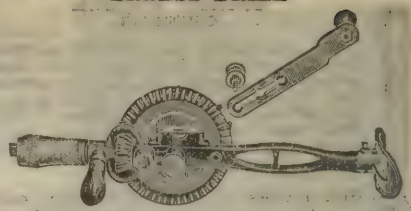


No. 4-A-1213. A high grade hollow handle tool set, finely finished improved nut and chuck, polished cocobola handle. Set consists of 9 superior tools, which are oil tempered and finely finished. Price....67c

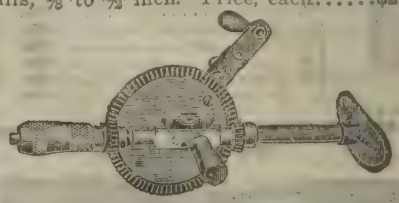


No. 4-A-1214. The finest hollow handle tool set manufactured. Set consists of 11 guaranteed tools. Chuck is finely nickel plated and has a positive grip. Handle is made of cocobola, highly polished. The best set ever offered. Price.....$1.00

BREAST DRILL

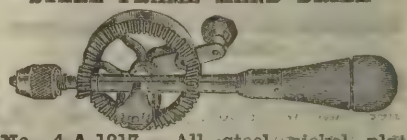


No. 4-A-1215. Ball bearing breast drill, changeable gear, two speeds from even to about 3 to 1, cut gears, adjustable cranks, chuck and stock are nickel plated, alligator jaws, will hold square and round shank, drills, ⅛ to ½ inch. Price, each.....$2.10



No. 4-A-1216. Double geared breast drill, ball bearing, with lever attachment, speed 4½ to 1 cut gears, polished hardwood handles, extension crank, nickel plated stock and chuck, alligator jaws to hold square and round shank drills from ⅛ to ½ inch. Price $3.10

STEEL FRAME HAND DRILL



No. 4-A-1217. All steel nickel plated frame with hollow cocobola handle, cut gears, 3 jaw nickel plated knurled chuck, takes drill to 5-32 inch, complete, with 8 drills, 1-16 to 11-64 inch. Price.....$1.33

PERFECTION HAND DRILL

No. 4-A-1218. Malleable iron frame, japanned finish, hollow polished wood handle, nickel plated cut gears held with steel guards, knurled nickel plated chuck, complete with 8 drill points, 1-16 to 11-64 inches. Price $1.03

CARPENTERS' STEEL SQUARE

Every square properly made, well finshed and accurate. The marking is distinct.

No. 4-A-1230. Steel square No. 7, nicely finished, size of body 24x2 inches, tongue 16x1½ inch, both sides marked ¼, ⅛ and 1 inch, Essex board measure with feet and inches. Price, each.....$0.40

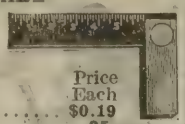
No. 4-A-1231. Steel square No. 3, polished, size of body 24x2 inches, size of tongue 16x1½ inches, face spaced $\frac{1}{16}$-$\frac{1}{4}$, back $\frac{1}{12}$ and $\frac{1}{4}$ inch. Brace measure and Essex board measure. Price each.. .48

No. 4-A-1232. Steel square No. 3, Blued finish, with the enamel graduations. Size of body 24x2 inches, size of tongue 16x1½ inches. Face spaced $\frac{1}{16}$-$\frac{1}{4}$ inch, back $\frac{1}{12}$ and $\frac{1}{4}$ inch. Brass and Essex board measure. Price, each.. .75

No. 4-A-1233. Steel square, polished No. 100, size of body 24x2, size of tongue 16x1½ inches, face spaced $\frac{1}{16}$-$\frac{1}{4}$ inch and back $\frac{1}{12}$-$\frac{1}{24}$ and $\frac{1}{16}$ inch. Has brace measure and rafter table. Price each.. .70

No. 4-A-1234. Royal, copper plated steel square, No. 100, R. C. R. The plating is extra heavy and prevents rust. The figures and graduations are in white enamel. Size of body 24x2 inches, size of tongue 16x1½ inches, face spaced $\frac{1}{16}$-$\frac{1}{4}$, and $\frac{1}{4}$ inch, back $\frac{1}{12}$-$\frac{1}{24}$, and $\frac{1}{16}$ inch, has brace measure and rafter table. Price.....$1.50

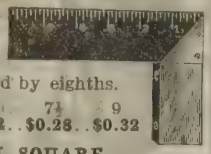
TRY SQUARE



No. 4-A-1235. Rosewood stock, brass face, steel blade, with graduations.

Size Inches	Price Each	Size Inches	Price Each
4½	$0.14	7½	$0.19
6	.18	8	.25

MITRE SQUARE



No. 4-A-1236. Can be used as a try-square. Rosewood stock, brass face, steel blade, graduated by eighths.

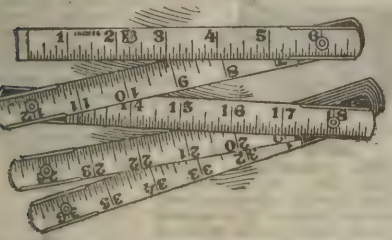
Size, inches	4½	6	7½	9
Price, each	$0.12	$0.22	$0.28	$0.32

SLIDING T BEVEL SQUARE

No. 4-A-1237. Rosewood stock, brass tipped steel blade.

Length, inches	6	8
Price, each	$0.16	$0.18
Length inches	10	12
Price, each	$0.20	$0.22

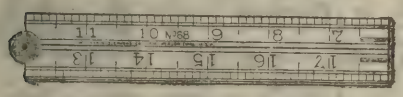
FOLDING RULES



No. 4-A-1238. Yellow Finish, Black Figures. Made with extra strong hinge joints. Ends are brass tipped and graduations are plain.

Length, feet	3	4	5	6	8
Price, each	$0.13	$0.19	$0.24	$0.28	$0.36

BOXWOOD RULES



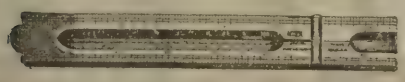
No. 4-A-1239. Two feet, 4 fold, with round joint and middle plate, graduations eighths and sixteenths. Price, each $0.08

No. 4-A-1240. Two foot, 4 fold, square joint and edge plate, width 1 inch, graduations in eighths, tenths and sixteenths, and sixteenths with drafting scale. Price, each $0.14

No. 4-A-1241. Two foot, 4 fold, boxwood rule, square joint and edge plates, half brass bound, graduations in eighths, tenths, twelfths and sixteenths, with drafting scale. Price, each $0.25

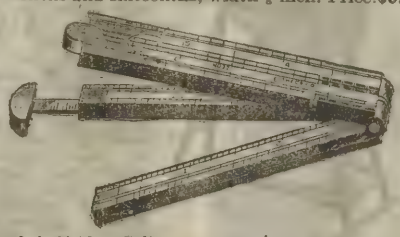
No. 4-A-1242. Two foot, 4 fold, boxwood rule, square joints and edge plates, full brass bound, graduations in eighths, tenths, twelfths and sixteenths, with drafting scale. Price, each $0.30

No. 4-A-1243. Double arch joint, 2 foot, 4 fold, boxwood rule, full brass bound graduations in eighths, tenths and sixteenths, with drafting scale, width 1⅜ inches. Price, each $0.45



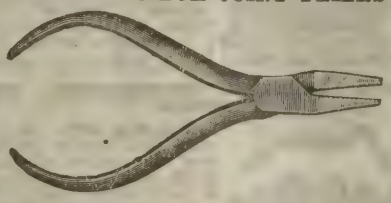
No. 4-A-1244. Architect's rule, 2 foot, 4 fold, inside edge beveled, arch joints, graduations in eighths, tenths, twelfths and sixteenths, with drafting scale, width 1 inch. Price, each $0.29

No. 4-A-1245. Caliper rule, 6 inches, 2 fold, square joint, graduations in eighths, tenths, twelfths and sixteenths, width ⅝ inch. Price $0.16



No. 4-A-1246. Caliper rule, 1 foot, four fold, arch joint, full brass bound graduations in eighths, tenths, twelfths and sixteenths, width ⅞ inch. Price, each $0.36

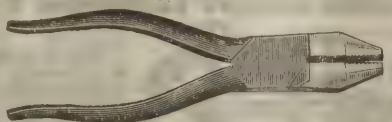
FLAT NOSE BOX JOINT PLIERS



No. 4-A-1254. High grade steel, highly tempered, polished jaws.

Length inches	4	5	6
Price each	$0.18	$0.21	$0.26

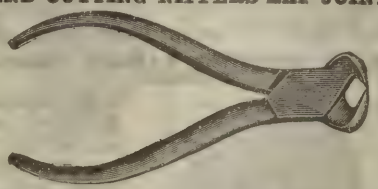
SIDE CUTTING BOX JOINT PLIERS



No. 4-A-1255. High grade tool steel, raised cutter polished jaws, strictly first-class tool.

Size inches	5	6	7	8
Price each	$0.35	$0.43	$0.52	$0.67

END CUTTING NIPPERS LAP JOINT



No. 4-A-1256. First-class cutter, made of high grade steel, bright finish.

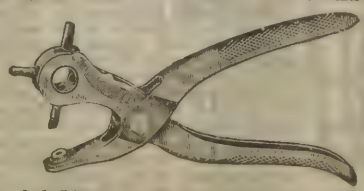
Size inches	4	5	6
Price each	$0.18	$0.23	$0.28

REVOLVING SPRING PUNCHES

No. 4-A-1257. 4 Tubes each different size, made of cast steel, nicely finished. Price each $0.37

No. 4-A-1258. 6 Tubes each different size, made of cast steel, nicely finished. Price each $0.45

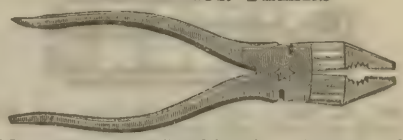
PARAGON REVOLVING PUNCHES



No. 4-A-1259. Nickel-plated finish, 4 tubes, Nos. 1, 3, 5, 7 length, 8 inches. Price each $0.67

No. 4-A-1260. Extra tubes for Paragon punches, sizes 1, 3, 5, 7. Price each ... $0.12

COMBINATION PLIERS



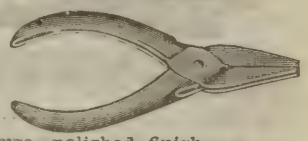
No. 4-A-1261. Combination Burner wire and side cutting pliers. End of one handle can be used as a screw driver. The other is pointed and can be used as a reamer. Made of high grade tool steel, finely tempered.

Size inches	6	8
Price each	$0.45	$0.60

UTILITY GAS PLIER AND WIRE CUTTER

No. 4-A-1262. Drop forged tempered steel, full polished finish, a most convenient tool for ordinary work. Price each $0.14

LODI FLAT NOSE PLIERS



No. 4-A-1263. Lodi flat nose, all steel pliers, strongly made and guaranteed to be a very satisfactory tool for ordinary use, polished finish.

Size inches	4	5	6
Price each	$0.06	$0.08	$0.10

LODI CUTTING PLIERS

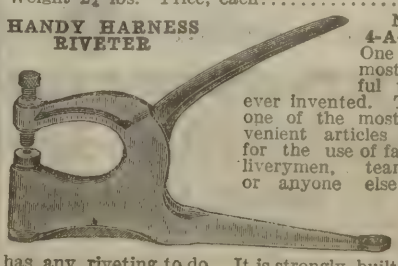
No. 4-A-1264. Lodi Cutting Pliers, all steel and suitable for cutting soft wire, polished finish.

Size inches	5	6
Price each	$0.12	$0.16

WASHINGTON'S HATCHET

No. 4-A-1247. Convenience! Utility! Simplicity! Compactness! The greatest combination Tool ever invented. Seventeen tools in one, consisting of hammer, hatchet, nail puller, wire cutter, gas plier, leather punch, four contact grip, wire clamp, cutting nippers, staple pullers, screw driver, pliers, wrench, wire gauge, box opener, pinchers, knot tier. This Tool is made of the best drop forged steel, and is first class in every respect. It is so perfectly arranged that each of the seventeen Tools it combines works as well as if made alone. It is invaluable in the home, the office and the work shop, and to the automobilist it provides all the tools he needs, and occupies little space.
Weight 2½ lbs. Price, each $0.60

HANDY HARNESS RIVETER



No. 4-A-1248. One of the most useful tools ever invented. This is one of the most convenient articles made for the use of farmers, liverymen, teamsters, or anyone else who has any riveting to do. It is strongly built of the best cast iron and is most economical article to have around the stable. It will save you many dollars on harness repair bills during the year, uses a hollow tubular rivet.
Weight 3 lbs. Price, each $0.28

JAPANNED TUBULAR RIVETS

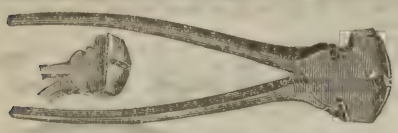
No. 4-A-1249. For use with Handy Harness Riveter. Put up in boxes 50 assorted rivets, sizes ⅛ to ⅜.
Price, per single box $0.06
Price, per dozen boxes ..... .60

CARPENTERS' PINCHERS

No. 4-A-1250. Made of high grade tool steel, properly tempered and nicely finished.

Lengths, inches	8	10	12
Price, each	$0.20	$0.23	$0.27

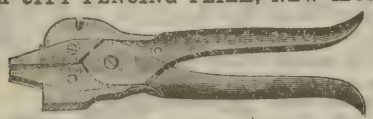
COMBINATION FENCING PLIER



No. 4-A-1251. Drives and pulls staples, cuts splices and stretches wire, will cut a double strand of barb wire. The best combination fencing plier manufactured. Every tool guaranteed to give perfect satisfaction. Length 11 inches.

Price, each $0.76

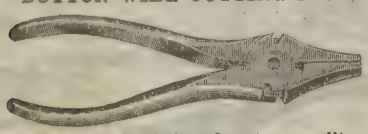
ELM CITY FENCING PLIER, NEW MODEL



No. 4-A-1252. Combination staple puller, wire cutter, wire splicer, hammer and plier, will cut up to No. 7 wire.

Price, each $0.78

BUTTON WIRE CUTTING PLIER



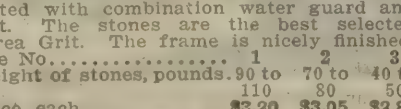
No. 4-A-1253. Made of extra quality steel, finely tempered, polished jaws.

Size, inches	6	8	10
Price, each	$0.16	$0.23	$0.28

BALL BEARING GRINDSTONES

No. 4-A-1265. Combination steel and wood frame. The most rigid and durable manufactured. Full ball bearing journals cause it to run very easy. One man can operate it and grind at the same time. The axles are of steel, accurately centered. Fitted with combination water guard and rest. The stones are the best selected Berea Grit. The frame is nicely finished.

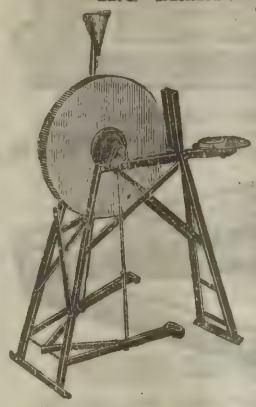
Size No.	1	2	3
Weight of stones, pounds.	90 to 110	70 to 80	40 to 50
Price each	$3.20	$3.05	$2.85



NAIL PULLERS

No. 4-A-1270. Jaws forged from fine quality steel, hardened and oil tempered, every puller tested and fully warranted. Size 18 inches. Price each $0.50

PREMIER STEEL FRAME BALL BEARING GRINDSTONES

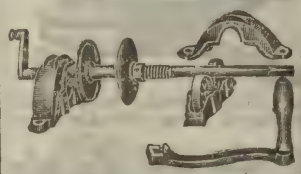


No. 4-A-1266. The strongest and easiest running grindstones on the market. Frame is constructed from angle steel, extra well braced and strongly reinforced, doing away with the vibration that is general in other machines. Ball bearings on journals and cups, making four sets of the highest grade ball bearings ever put into a grindstone. Axles are made of steel accurately centered. Stone is the best selected Berea Grit 20 to 22 inches diameter, 2 to 2½ inches thick and weigh on an average 60 lbs. The frame and stone are shipped complete, carefully crated. Face of stone is protected by a wood strip to prevent chipping in transit. Weight, stone and frame, 85 pounds. Price each..... $2.95

BALL BEARING GRINDSTONE FIXTURES

No. 4-A-1267. Made with ball bearing journals and will support stones up to 30 inches diameter and 2 to 3 inches thick. The axles are solid steel and the ball bearings are the best that is possible to produce. Fixtures can be used on any wood frame and save half the labor of grinding. Price, per set.... $0.58

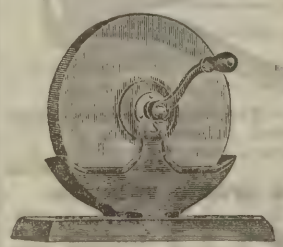
ROLLER BEARING GRINDSTONE FIXTURES



No. 4-A-1268. Adjustable for stones of different thicknesses. The use of these fixtures will prevent the splitting of grindstones, which is often the case when wooden wedges or axles are used.

Length inches	15	17	19	21
For stone pounds.	40	60	80	100
Price each	$0.26	$0.28	$0.30	$0.34

BALL BEARING FAMILY GRINDSTONES



No. 4-A-1269. Stones are carefully selected, rubbed finish and cut rapidly, mounted on solid steel axles, accurately centered and running in steel ball bearing journals, the best and easiest running family grindstone manufactured.

Size inches	8	10
Price each	$0.85	$1.15

WAREHOUSE TRUCKS

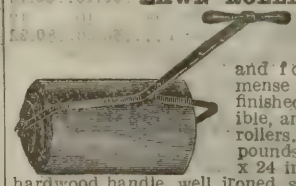
No. 4-A-1271, Warehouse trucks. This truck is intended for all class of work, capacity 1000 pounds. It is made of second growth white oak. The handles are well proportioned, being 46 inches long by 1½ in. x 1¾ in. We wish to call your particular attention to the extra strong cross braces. There are 4 pieces used in the construction of this truck instead of 3 as used in all other trucks; three of the cross pieces are tenoned, which you will not find in other trucks of this style. Axles ¾ in. square, journals turned with a ½ inch bolt, passing through handle, cross bar and axle, thus making it impossible for the truck to spread. Wheels 6 inches in diameter, extra heavy nose, width of nose 12 inches, well ironed, nicely finished and varnished.

Price, each $1.75

BAG HOLDING TRUCK

No. 4-A-1272. The only bag-holding truck that holds all kinds of sacks. The only easel truck manufactured with straight axle falling directly on the bearings. It is indispensable on the farm, store and warehouse. The bag holder is so made that it will not tear the sack and is adjustable for different lengths of sacks. Its construction is very simple and any one can operate it. It is made of solid oak, well ironed. While using the holder the wheels are set back, giving a good brace and making it self sustaining. When not in use the holder can be removed and the truck used for ordinary work. The handles are well proportioned and 46 inches long by 1½ x 1¾ inches. Width of nose, 12 inches. Price..... $2.75

LAWN ROLLERS

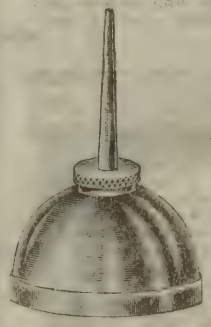


No. 4-A-1273. This Roller is made of solid concrete and formed under immense pressure, smoothly finished and indestructible, and superior to iron rollers. Weight about 300 pounds, size of roller, 14 x 24 inches, fitted with a hardwood handle, well ironed, shipped direct from factory, Central Ohio. Price..... $3.95

ZINC OILERS

No. 4-A-1420. Made from zinc with double seam bowls. Guaranteed not to leak. The spout screw has a cork ground thread which causes it to work easily. The opening being large, it can be easily filled. The tube of the oiler running down through and inside of the screw prevents the tube from breaking off, as frequently happens with oilers that depend only on solder to hold the tubes in place.

Size No.	Diameter	Length of Spout	Price each	Price per Dozen
1	2⅜ ins.	2 ins.	$0.05	$0.55
2	3 3-16 ins.	4 ins.	.07	.70
3	3½ ins.	4 ins.	.08	.80
5	4½ ins.	5 ins.	.12	1.25
6	4½ ins.	5 ins	.15	1.60



SEAMLESS COPPER PLATED STEEL OILERS

No. 4-A-1421. These oilers are heavily plated and will give equally as good service as the all copper oiler. Made with spring bowls. The 9-inch nozzles are bent; the other sizes are straight.

Size No.	Diameter	Capacity	Nozzle	Price Each
13	3⅜ ins.	5 oz.	3 inch straight	$0.12
14	3⅜ ins.	5 oz.	9 inch bent	.16
14-A	3⅜ ins.	½ pt.	5 inch straight	.18
14-B	3⅜ ins.	½ pt.	9 inch bent	.20

MACHINE OILERS

Tin machine oiler, 4½-inch diameter, bent spout. Price, each 4c

Tin machine oiler, 4½-inch diameter, straight spout. Price, each 4c

No. 4-A-1423. Seamless steel machine oiler, copper plated both inside and out, 5-inch straight nozzle. Price, each.13c

STORE DOOR SETS

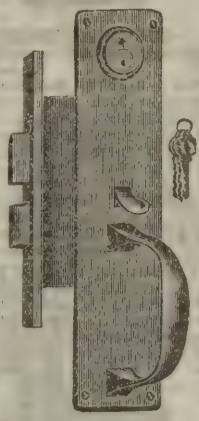
Heavy Genuine Cast Bronze, Antique Copper Finish, Cylinder Store Door Handle and Lock.

No. 4-A-1548 — This is a highly ornamental design, finely made and is suitable for any store door. Set comprises One Mortise Cylinder Store Door Lock, size 5x3½ inches, 5 pin tumbler, 2 handsomely finished handles and plates, one for each side of the door, size of plate 3½x17¾ inches, 3 German silver keys, reversible for right or left hand doors. Packed complete with screws. Price, per set.....$7.90

Genuine Wrought Bronze Metal, Antique Copper Finish, Cylinder Store Door Handle and Lock.

No. 4-A-1552—Set comprises One Mortise Cylinder Store Door Lock, size 5x3½ inches with 5 pin tumbler cylinder, 3 German Silver keys, size of plates 3x12 inches, 2 bar handle grips one for either side of the door, reversible for right or left hand door, packed complete with screws. Price per set.....$6.65

Genuine Wrought Bronze Metal, Antique Copper Finish, Cylinder Store Door Handle and Lock.



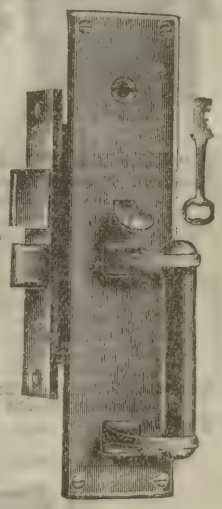
No. 4-A-1549—Set comprises One Mortise Cylinder Store Door Lock, size 5x3½ inches, 5 pin tumbler cylinder, flat front, 2 handles and plates, size of plates 3x12 inches, reversible for right or left hand door, 3 German silver keys, packed complete with screws. Price per set.....$6.35

Wrought Steel, Plated Antique Copper Finish Flat Key Store Door Handle and Lock.

No. 4-A-1553—Set comprises One Mortise Store Door Lock, size 4¾x3¼ inches, 2 flat steel keys, 2 bar handle grips, one for each side of the door, size of plates 3x12 inches, reversible for either right or left hand door, packed complete with screws. Price per set.....$2.30

Genuine Wrought Bronze Metal, Antique Copper Finish Store Door Lock and Handle.

No. 4-A-1554—Set comprises One Mortise Store Door Lock, size 4¾x3¼ inches, 2 flat steel keys, 2 bar handle grips, one for either side of the door, size of plates 3x12 inches, reversible for either right or left hand doors, packed complete with screws. Price per set.....$3.95



Wrought Steel, Plated Antique Copper Finish Flat Key Store Door Handle and Lock.

No. 4-A-1550—Set comprises One Mortise Store Door Lock, 4¾x3¼ inches, 2 flat steel keys, 2 handles and plates, size of plates, 3x12 inches, reversible for either right or left hand door, packed complete with screws. Price, per set.....$1.95

Genuine Wrought Bronze Metal, Antique Copper Finish Steel Door Lock and Handle.

No. 4-A-1551—Set comprises One Mortise Store Door Lock, 4¾x3¼ inches, 2 flat steel keys, two handles and plates, size of plates, 3x12 inches, reversible for either right or left hand door. Packed complete with screws. Price per set.....$3.50

Bronze Plated Iron Store Door Handles and Locks With Polished, Raised Surface, Black Back-Ground.

No. 4-A-1555—Set comprises One Mortise Store Door Lock, size 4¾x3½ inches, 2 flat steel keys, 2 handles, one for either side of the door, size of plates, 2¾x13 inches, reversible for right or left hand door. Packed complete with screws.

Price, per set.....$1.65

Edgewater Design Lock Sets

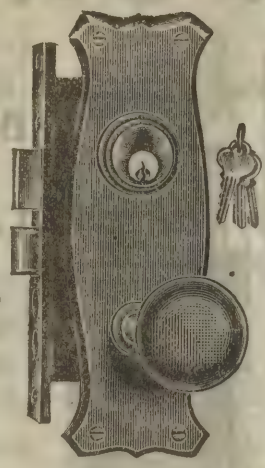
EDGEWATER CYLINDER FRONT DOOR SETS.

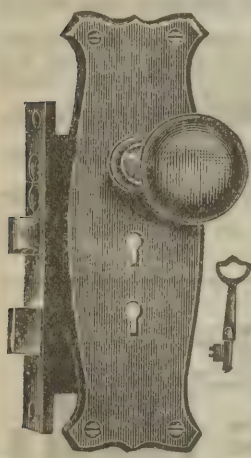
Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1556. This is a new design very handsome and effective. Set comprises heavy bronze front and bolts, mortise cylinder lock, 5½ x 4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 3 x 9½ inches, knobs 2¼ inches, reversible for right or left hand door, packed complete with screws. Price per set.....$6.30

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1557. Same as above. Price per set.....$6.30





EDGEWATER FRONT DOOR SET.

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1558. Set comprises one bronze front door lock and bolts, size 4¾ x 3¾ inches, with one lock key and 2 night keys, one pair knobs 2¼ inches with swivel spindle. Outside escutcheon 3 x 9½ inches, reversible for right or left hand door, packed complete with screws. Price, per set.....$2.10

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1559. Same as above. Price per set.....$2.10

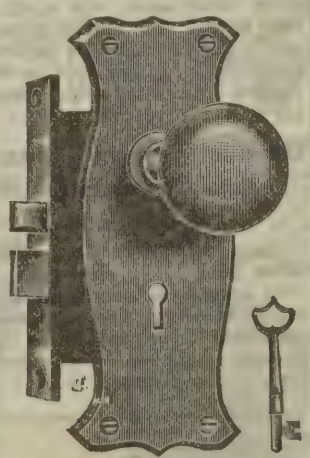
EDGEWATER INSIDE DOOR SETS.

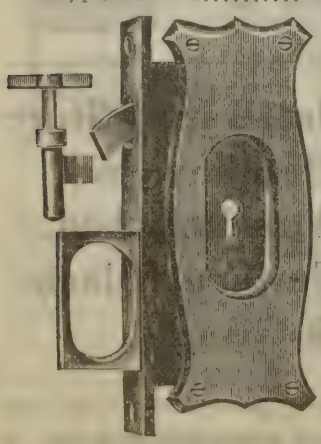
Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1560. Set comprises one Bronze Face Lock and Bolts, size 3¾ x 3¼ inches, with one nickel plated steel key, one pair of knobs 2¼ inches, 2 long escutcheons 2¾ x 7¼ inches, packed complete with screws, reversible for right or left hand door. Price per set.....$ 1.25
Price, per dozen sets..... 13.75

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1561. Same as above, Price, per set.....$ 1.25
Price, per dozen sets..... 13.75





EDGEWATER SLIDING DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

For Single Doors. Flat Front.

No. 4-A-1562. Set comprises one mortise sliding door lock, size 4½ x 3½ inches. Bronze front strike bolt and pull with key, 2 flush cup escutcheons, complete with screws. Price per set....$1.48

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1563. Same as above. Price per set.....$1.48

For Double Door Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1564. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set.....$2.00

Old Lemon or Brass Finish.

No. 4-A-1565. Same as above. Price per set.....$2.00

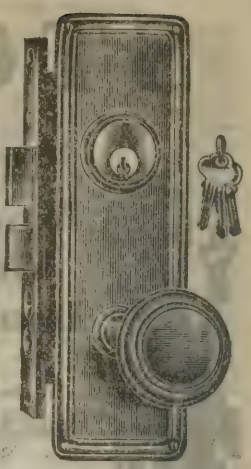
Colonial Design Door Sets

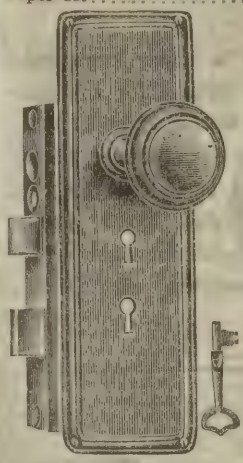
COLONIAL CYLINDER FRONT DOOR SETS Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1566. Set comprises a heavy bronze front and bolts, mortise cylinder lock, size 5½ x 4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 2¾ x 9¼ inches, knobs 2¼ inches, reversible for right or left hand door, packed complete with screws. Price per set.....$5.95

Genuine Wrought Bronze, Old or Lemon Brass.

No. 4-A-1567. Same as above. Price per set.....$5.95





COLONIAL FRONT DOOR SETS. Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1568. Set comprises 1 front door lock and bolts 4¾x3¾ inches with one lock key and 2 night keys, one pair knobs 2¼ inches with swivel spindle, outside escutcheon 2¾ x 9¼ inches, reversible for right or left hand door, packed complete with screws. Price per set$1.40

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1569. Same as above, Price per set$1.40

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1570. Set comprises one front door lock and bolts 4¾x3¾ inches with one lock key and 2 night keys, one pair knobs 2¼ inches with swivel spindle, outside escutcheon 2¾x9¼ inches, reversible for right or left hand door, packed complete with screws. Price per set.....$1.75

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4A-1571. Same as above. Price, per set.....$1.75

COLONIAL INSIDE DOOR SETS. Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1572. Set comprises one steel front mortise lock size 3¾x3¼ inches with one nickel plated steel key, one pair knobs 2¼ in., 2 long escutcheons 2¾ x 7 in., reversible for right or left hand door, packed complete with screws. Price per set.....$0.55
Price per dozen sets $6.00.

Wrought Steel, Old or Lemon Brass Finish.

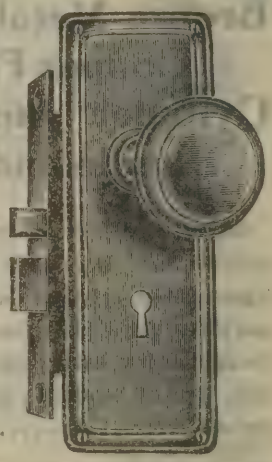
4-A-1573. Same as above. Price per set,$0.55
Price per dozen sets $6.00.

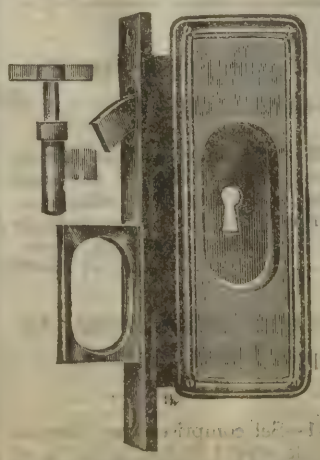
Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1574. Set comprises one steel front mortise lock, size 3¾x3¼ inches with one nickel plated steel key, one pair knobs 2¼ in., 2 long escutcheons 2¾x7, reversible for right or left hand door, packed complete with screws. Price per set.....$1.10
Price, per dozen sets, $12.00.

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1575. Same as above, price per set $1.10, price per doz. sets.....$12.00





COLONIAL SLIDING DOOR SETS.

For Single Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1576. Set comprises one mortise sliding door, lock, size 4½x3½ in., bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws. Price per set.....$1.45

Old or Lemon Brass Finish.

4-A-1577. Same as above, Price per set.....$1.45

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1578. Same as above. Price per set..... $1.25

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1579. Same as above. Price per set.....$1.25

For Double Doors. Genuine Wrought Bronze, Metal Antique Copper Finish.

4-A-1580. Same as the above with the exception that the set is complete with 4 flush cup escutcheons. Price per set.....$2.00

Old or Lemon Brass Finish.

No. 4-A-1581. Same as above. Price per set.....$2.00

Wrought Steel, Antique Copper Finish plated, For Double Doors

No. 4-A-1582. Same as above. Price per set..... $1.75

Wrought Steel, Old or Lemon Brass Finish, For Double Door.

No. 4-A-1583. Same as above. Price per set..... $1.75

Glencoe Design Door Sets

GLENCOE CYLINDER FRONT DOOR SETS.
Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1584. Set comprises a heavy bronze front and bolts, mortise cylinder lock 5½x4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 2½x9 inches, knobs 2½ inches, reversible for right or left hand door, packed complete with screws. Price per set..... **$5.40**

GLENCOE CYLINDER FRONT DOOR SETS.
Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1585. Same as above. Price per set **$5.40**

GLENCOE FRONT DOOR SETS.
Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1586. Set comprises one iron front lock and bolts 4¾x3¾ inches, with one lock key and two night keys. One pair knobs 2½ inches with swivel spindle, outside escutcheon 2½x9 inches. Reversible for right or left hand door, packed complete with screws. Price per set..... **$1.40**

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1587. Same as above. Price per set..... **$1.40**

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1588. Set comprises one iron front lock and bolts 4¾x3¾ inches with one lock key and two night keys, one pair knobs 2½ inches with swivel spindle, outside escutcheons 2½x9 inches. Reversible for right or left hand door, packed complete with screws. Price per set..... **$1.68**

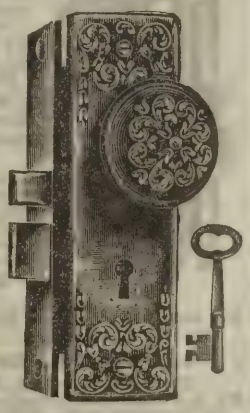
Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1589. Same as above. Price per set..... **$1.68**

GLENCOE INSIDE DOOR SETS.
Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1590. Set comprises one steel front mortise lock 3¾x3½ inches with one nickel plated steel key, one pair knobs 2½ inches, 2 long escutcheons 2½x7 inches. Reversible for right or left hand door, packed complete with screws. Price per set..... **$0.49**

Price per dozen sets **$5.40.**



Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1591. Same as above. Price per set..... **$0.49**

Price per dozen sets **$5.40.**

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1592. Set comprises one steel front mortise lock 3¾x3½ inches, with one nickel plated key, one pair knobs 2½ inches, 2 long escutcheons 2½x7 inches. Reversible for right or left hand door, packed complete with screws Price per set..... **$1.05**

Price per dozen sets **$12.00.**

Genuine Wrought Bronze, Old or Lemon Finish.

No. 4-A-1593. Same as above. Price per set..... **$1.05**

Price per dozen sets **$12.00.**

GLENCOE SLIDING DOOR SET.
For Single Doors Genuine Wrought Bronze, Metal Antique Copper Finish.

No.4-A-1594. Set comprises one mortise sliding door lock, size 4½x3½ inches. Bronze front, strike bolt and pull with key, 2 flush cup escutcheons. Packed complete with screws. Price per set **$1.35**

For Single Door Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1595. Same as above. Price per set..... **$1.35**

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1596. Same as above. Price per set..... **$1.12**

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1597. Same as above. Price per set..... **$1.12**

GLENCOE SLIDING DOOR SETS.

For Double Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1598. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set..... **$1.97**

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1599. Same as above. Price per set..... **$1.97**

Wrought Steel, Antique Copper Finish Plated.

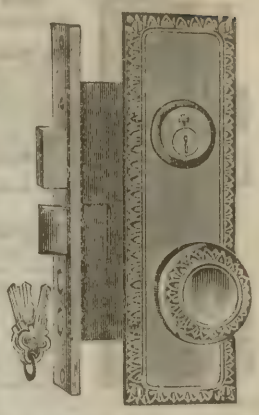
No. 4-A-1600. Same as above. Price per set..... **$1.72**

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1601. Same as above. Price per set..... **$1.72**

Evanston Door Sets

EVANSTON CYLINDER FRONT DOOR SETS.
Genuine Wrought Bronze, Antique Copper Finish.

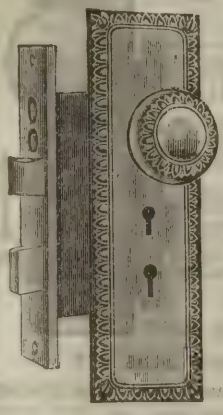


No. 4-A-1602. Set comprises one heavy bronze front and bolts, morti cylinder lock 5½x4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 2¾x9½ inches, knobs 2½ inches, reversible for right or left hand door, packed complete with screws. Price per set..... **$5.25**

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1603. Same as above. Price per set..... **$5.25**

EVANSTON FRONT DOOR SETS.
Wrought Steel, Antique Copper Finish Plated.



No. 4-A-1604. Set comprises one iron front lock and bolts 4¾x3¾ inches with one and 2 night keys, one pair knobs 2½ inches with swivel spindle, outside escutcheon 2¾x9½ inches, reversible for right or left hand door, packed complete with screws. Price per set **$1.40**

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1605. Same as above. Price per set..... **$1.40**

Genuine Wrought Bronze, Antique Copper Finish.

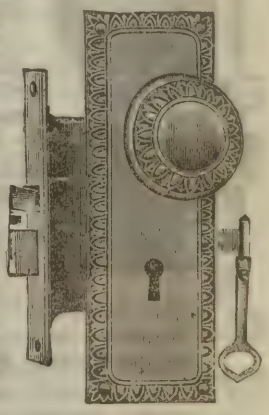
No. 4-A-1606. Set comprises one iron front lock and bolts 4¾x3¾ inches with one lock key and 2 night keys, one pair knobs 2½ inches with swivel spindle, outside escutcheon 2¾x9½ inches, reversible for right or left hand door, packed complete with screws. Price per set..... **$1.75**

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1607. Same as above. Price per set..... **$1.75**

EVANSTON INSIDE DOOR SETS.
Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1608. Set comprises one steel front mortise lock 3¾x3½ inches, one nickel plated key, one pair knobs 2½ inches long, two long escutcheons 2½x7 inches, reversible for right or left hand door, packed complete with screws. Price per set..... **$0.48**
Price per dozen sets..... **5.20**



Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1609. Same as above. Price per set..... **$0.48**
Price per dozen sets..... **5.20**

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1610. Set comprises one steel front mortise lock 3¾x3½ inches, one nickel plated steel key, one pair knobs 2½ inches, two long escutcheons 2½x7 inches, reversible for right or left hand door, packed complete with screws. Price per set..... **$ 0.90**
Price per dozen sets **10.00**

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1611. Same as above. Price per set..... **$ 0.90**
Price per dozen sets..... **10.00**

EVANSTON SLIDING DOOR SETS.

For Single Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1612. Set comprises one mortise sliding door lock, size 4½x3½ inches. Bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws, price per set..... **$1.20**

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1613. Same as above. Price per set..... **$1.20**

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1614. Same as above. Price per set..... **$1.05**

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1615. Same as above Price per set..... **$1.05**

For Double Doors Genuine Wrought Bronze Metal Antique Copper Finish.

No. 4-A-1616. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set. **$1.90**

Old or Lemon Brass Finish.

No. 4-A-1617. Same as above. Price per set..... **$1.90**

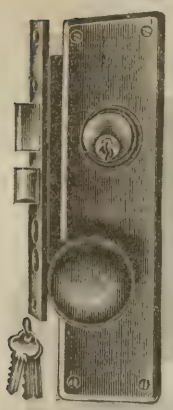
Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1618. Same as above. Price per set..... **$1.70**

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1619. Same as above. Price per set..... **$1.70**

Argyle Design Lock Sets



ARGYLE CYLINDER FRONT DOOR SETS.

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1620. Set comprises heavy bronze front and bolts, mortise cylinder lock 5½x4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon, 2¾x10 inches, knobs 2½ inches, reversible for right or left hand door, packed complete with screws. Price per set..... $5.45

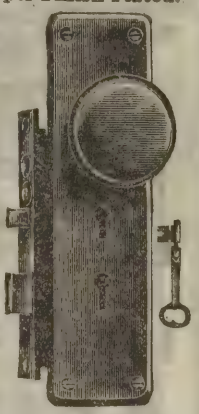
Genuine Wrought Bronze, Old Lemon Brass Finish.

No. 4-A-1621. Same as above. Price per set.. $5.45

ARGYLE FRONT DOOR SET.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1622. Set comprises one iron front lock and bolts, size 4¾x3¾ inches. One lock, key and two night keys, one pair knobs 2¼ inches with swivel spindle, outside escutcheon 2½x8 inches, reversible for right or left hand door, packed complete with screws. Price per set..... $1.25



Wrought Steel or Old Lemon Brass Finish.

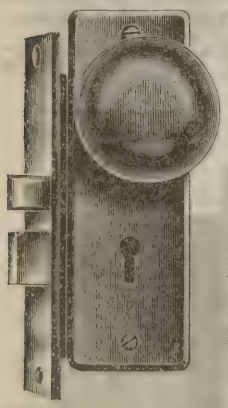
No. 4-A-1623. Same as above. Price per set.. $1.25

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1624. Set comprises one bronze front lock and bolts, size 4¾x3¾ inches. One lock, key and 2 night keys, one pair knobs 2¼ inches with swivel spindle, outside escutcheon 2½x8 inches, reversible for right or left hand door, packed complete with screws. Price per set..... $1.65

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1625. Same as above. Price per set... $1.65



ARGYLE INSIDE DOOR SET.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1626. Set comprises one steel front mortise lock, size 3¾x3½ inches with one nickel plated steel key, one pair knobs 2¼ inches, two long escutcheons 2½x5¾ inches, reversible for right or left hand door. Packed complete with screws.

Price per set..... $0.48
Price per dozen sets..... 5.00

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1627. Same as above.

Price per set..... $0.48
Price per dozen sets..... 5.00

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1628. Set comprises one steel front door mortise lock 3¾x3½ inches with one nickel plated steel key, one pair knobs 2¼ inches, 2 long escutcheons 2x5¾ inches reversible for right or left hand door. Packed complete with screws.

Price per set..... $ 1.05
Price per dozen sets..... 11.50

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1629. Same as above. Price per set..... $ 1.05
Price per dozen sets..... 11.50

ARGYLE SLIDING DOOR SETS FOR SINGLE DOORS.

Genuine Wrought Bronze, Metal Antique Copper Finish.

No. 4-A-1630. Set comprises one mortise sliding door lock, size 4½x3½ inches, bronze front, strike bolt and pull with key, 2 flush cup escutcheons. Complete with screws.

Price per set..... $1.30

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1631. Same as above.

Price per set..... $1.30

Genuine Wrought Steel Metal, Antique Copper Finish.

No. 4-A-1632. Same as above.

Price per set..... $1.05

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1633. Same as above.

Price per set..... $1.05

ARGYLE SLIDING DOOR SETS FOR DOUBLE DOORS.

Genuine Wrought Bronze Antique Copper Finish.

No. 4-A-1634. Same as the above with the exception that the set is complete with 4 flush cup escutcheons.

Price per set..... $1.90

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1635. Same as above. Price per set..... $1.90

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1636. Same as above. Price per set..... $1.60

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1637. Same as above. Price per set..... $1.60

Oak Park Design Door Sets

OAK PARK CYLINDER FRONT DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1638. Set comprises heavy bronze front and bolts, mortise cylinder lock, 5½x4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 2⅝x9⅝ inches, knobs 2½ inches, reversible for right or left hand door. Packed complete with screws. Price per set..... $5.35

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1639. Same as above. Price per set..$5.35

OAK PARK FRONT DOOR SETS.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1640. Set comprises one front door lock and bolts 4¾x3¾ inches with one lock key and 2 night keys, one pair knobs 2¼ inches with swivel spindle, outside escutcheon 2⅝x9⅝ inches, reversible for right or left hand door. Packed complete with screws. Price per set..... $1.35

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1641. Same as above. Price per set..$1.35

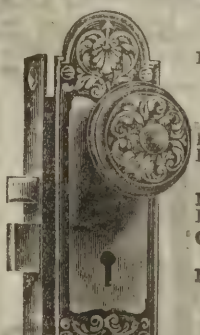
OAK PARK FRONT DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1642. Set comprises one front door lock and bolts 4¾x3¾ inches with one lock, key and 2 night keys, one pair knobs 2¼ inches with swivel spindle, outside escutcheon 2⅝x9⅝ inches, reversible for right or left hand door. Packed complete with screws. Price per set..... $1.70

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1643. Same as above. Price per set..... $1.70



OAK PARK INSIDE DOOR SETS.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1644. Set comprises one steel front mortise lock 3¾x3½ inches, with one nickel plated steel key, one pair knobs 2¼ inches, two long escutcheons 2 5/16x7⅞ inches, reversible for either right or left hand door. Packed complete with screws.

Price per set..... $0.47
Price per dozen sets..... 5.25

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1645. Same as above. Price per set... $0.47
Price per dozen sets..... 5.25

Genuine Wrought Bronze, Metal Antique Copper Finish.

No. 4-A-1646. Set comprises one steel front mortise lock 3¾x3½ inches with one nickel plated steel key, one pair knobs 2¼ inches, two long escutcheons 2 5/16x7⅞ inches, reversible for either right or left hand door. Packed complete with screws. Price per set.$ 1.00
Price per dozen sets..... 11.00

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1647. Same as above. Price per set..... $ 1.00
Price per dozen sets..... 11.00

OAK PARK SLIDING DOOR SETS FOR SINGLE DOORS.

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1648. Set comprises one mortise sliding door lock, size 4½x3½ inches, bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws. Price per set..... $1.35

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1649. Same as above. Price per set..... $1.35

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1650. Same as above.

Price per set..... $1.12

No. 4-A-1651. Same as above.

Price per set..... $1.12

OAK PARK SLIDING DOOR SETS FOR DOUBLE DOORS.

Genuine Wrought Bronze Antique Copper Finish.

No. 4-A-1652. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set..... $1.97

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1653. Same as above.

Price per set..... $1.97

Wrought Steel, Antique Copper Finish Plated for Double Doors.

No. 4-A-1654. Same as above. Price per set..... $1.72

Wrought Steel, Old or Lemon Brass Finish for Double Doors.

No. 4-A-1655. Same as above. Price per set..... $1.72

Wilmette Door Sets.

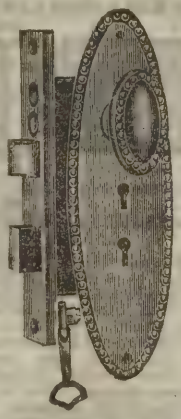
WILMETTE CYLINDER DOOR SETS.
Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1656. Set comprises one heavy bronze front and bolts, mortise cylinder lock 5½x4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 3x10 inches, knobs 2⅜ inches, reversible for right or left hand door, packed complete with screws. Price per set.....**$5.19**

WILMETTE CYLINDER DOOR SETS.
Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1657. Same as above. Price per set.**$5.19**

WILMETTE FRONT DOOR SETS.
Genuine Wrought Bronze, Antique Copper Finish.



No. 4-A-1658. Set comprises one iron front lock and bolts 4¾x3¾ inches with one lock key and two night keys, one pair knobs 2⅜ inches with swivel spindle, outside escutcheon 3x10 inches, reversible for right or left hand door, packed complete with screws. Price per set.....**$1.60**

WILMETTE FRONT DOOR SETS.
Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1659. Same as above. Price per set..**$1.60**

WILMETTE FRONT DOOR SETS.
Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1660. Set comprises one bronze front lock and bolts 4¾x3¾ inches with one lock key and two night keys, one pair knobs 2⅜ inches with swivel spindle, outside escutcheon 3x10 inches, reversible for right or left hand door, packed complete with screws. Price per set.....**$1.35**

WILMETTE FRONT DOOR SETS.
Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1661. Same as above. Price per set.....**$1.35**

WILMETTE INSIDE DOOR SETS.
Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1662. Set comprises one steel front mortise lock 3¾x3¼ inches, one nickel plated steel key, one pair knobs 2⅜ inches, 2 long escutcheons 2¼x7½ inches, reversible for right or left hand door, packed complete with screws.
Price per set.....**$0.47**
Price per dozen sets..... **5.00**

WILMETTE INSIDE DOOR SETS.
Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1663. Same as above. Price per set.....**$0.47**
Price per dozen sets..... **5.00**

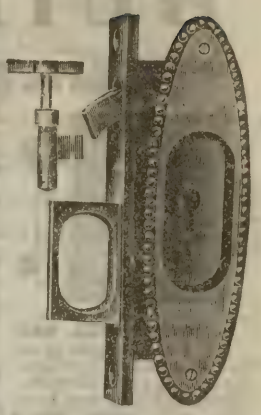
WILMETTE INSIDE DOOR SETS.
Genuine Wrought Bronze, Metal Antique Copper Finish.

No. 4-A-1664. Set comprises one steel front mortise lock 3¾x3¼ inches, one nickel plated steel key, one pair knobs 2⅜ inches, 2 long escutcheons 2¼x7½ inches, reversible for right or left hand door, packed complete with screws. Price per set.....**$0.87**
Price per dozen sets..... **9.60**

WILMETTE INSIDE DOOR SETS.
Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1665. Same as above. Price per set.....**$0.87**
Price per dozen sets..... **9.60**

WILMETTE SLIDING DOOR SETS.
For Single Doors, Genuine Wrought Bronze Metal, Antique Copper Finish.



No. 4-A-1666. Set comprises one mortise sliding door lock, size 4¼x3½ inches. Bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws. Price per set.....**$1.30**

WILMETTE SLIDING DOOR SETS.
For Single Doors, Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1667. Same as above. Price per set.....**$1.30**

WILMETTE SLIDING DOOR SETS.
Wrought Steel, Antique Copper Finish, Plated, for Single Doors.

No. 4-A-1668. Same as above.
Price per set.....**$1.05**

WILMETTE SLIDING DOOR SETS.
Wrought Steel, Old or Lemon Brass Finish, for Single Doors.

No. 4-A-1669. Same as above. Price per set.....**$1.05**

WILMETTE SLIDING DOOR SETS.
For Double Doors, Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1670. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set.....**$1.90**

WILMETTE SLIDING DOOR SETS.
For Double Door, Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1671. Same as above. Price per set.....**$1.90**

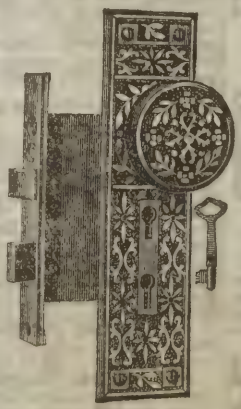
WILMETTE SLIDING DOOR SETS.
Wrought Steel, Antique Copper Finish, Plated, for Double Door.

No. 4-A-1672. Same as above. Price per set.....**$1.60**

WILMETTE SLIDING DOOR SETS.
Wrought Steel, Old or Lemon Brass Finish, for Double Door.

No. 4-A-1673. Same as above. Price per set.....**$1.60**

Austin Door Sets.



AUSTIN FRONT DOOR SETS.
Wrought Steel, Bronze Plated, Black Back-Ground and Polished, Raised Surface.

No. 4-A-1674. Set comprises one iron face lock and bolts 4¾x3¾ inches, one lock key and 2 night keys, one pair knobs 2¼ inches with swivel spindle, outside escutcheon 2¼x8 inches, reversible for right or left hand door, packed complete with screws. Price per set.....**$1.27**

AUSTIN INSIDE DOOR SETS.

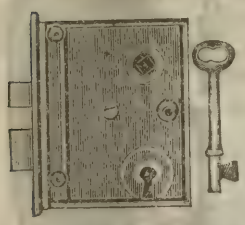
Wrought Steel, Plated Antique Copper Finish.

Black Back-Ground and Polished Raised Surface.

No. 4-A-1675. Set comprises mortise lock 3½x3¼ inches, nickel plated steel key, one pair of jet knobs 2¼ inches with two long escutcheons 1¾x5¾ inches, reversible for right or left hand door, packed complete with screws. Price per set.**$0.32**
Price per dozen sets.....**3.45**

BUILDERS HARDWARE

DOOR LOCKS JAPANNED IRON CASES
Upright Rim Knob Lock



Each lock is of the best construction. Are reversible for right or left hand doors.

No. 4-A-699. Size 4x3¼ inches, with stop, iron bolts, Japanned escutcheons, tinned malleable key, complete with screws, knobs not included.
Price, each.....$0.10
Price, per doz.. 1.10

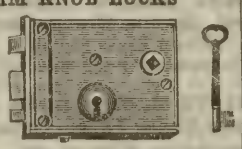
HORIZONTAL RIM KNOB LOCKS

No. 4-A-700. Size 3⅜x4½ inches, with stop, iron bolts, Japanned escutcheons, tinned malleable key, complete with screws, knobs not included.
Price, each.....$0.10
Price, per doz..... 1.10

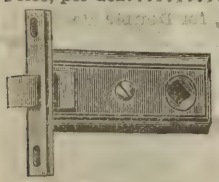
UPRIGHT RIM KNOB LOCKS

No. 4-A-701. Guaranteed to be the best value on the market. Size 4x3½ inches, with three brass bolts, nickel plated steel key, Japanned escutcheons, complete with screws, knobs not included.
Price, each.....$0.21
Price, per doz..... 2.40

HORIZONTAL RIM KNOB LOCKS



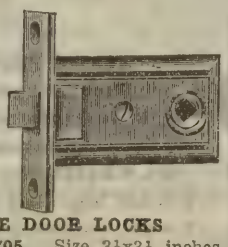
No. 4-A-702. This is a fine lock of excellent construction and will give perfect satisfaction. Size 3⅜x4½ inches, with three brass bolts, Japanned escutcheons, complete with screws, knobs not included.
Price, each.....$0.22
Price, per doz..... 2.50



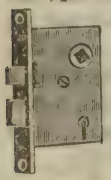
MORTISE DOOR LATCHES

No. 4-A-703. Reversible. Size 1½ x 3½ inches, Japanned iron case, iron bolt and strike, knobs not included.
Price each.....$0.06
Price, per doz..... .66

MORTISE DOOR LATCH



No. 4-A-704. Reversible. Size 1¼x3¾ inches. Japanned iron case, brass bolt and strike, knobs not included.
Price, each.....$0.14
Price, per doz.... 1.60

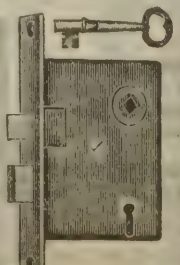


MORTISE DOOR LOCKS

No. 4-A-705. Size 3½x3½ inches. Reversible. Japanned iron case, lacquered front and strike, Japanned escutcheons, tinned key, complete with screws, knobs not included.
Price, each.....$0.14
Price, per doz..... 1.50

MORTISE DOOR LOCKS

No. 4-A-706. Size 3½x4½ inches. Reversible, Japanned iron case, brass bolt and front, brass plated strike, Japanned escutcheons one nickel plated steel key, complete with screws, knobs not included.
Price, each.....$0.25
Price, per doz..... 2.75

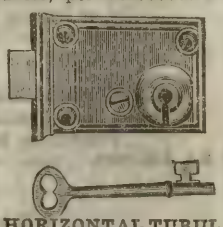


HORIZONTAL RIM KNOB LATCHES

No. 4-A-707. Size 2½x3¾ inches. Reversible, Japanned iron case, iron bolt and hub, complete with screws, knobs not included.
Price, each.....$0.09
Price, per doz..... 1.00

HORIZONTAL RIM KNOB LATCHES

No. 4-A-708. Size 2½x3¾ inches. Reversible, Japanned iron case, iron bolt, iron slide bolt, flush thumb piece, complete with screws, knobs not included.
Price, each.....$0.11
Price, per doz..... 1.20

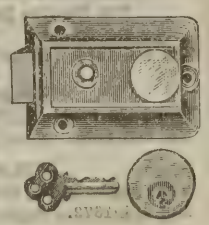


HORIZONTAL RIM DEAD LOCKS

No. 4-A-709. Size 2x2¾ inches. Japanned iron case and escutcheons, one iron key complete with screws, knobs cannot be used with this lock.
Price, each.....$0.10
Price, per doz..... 1.05

HORIZONTAL TUBULAR RIM NIGHT LATCH

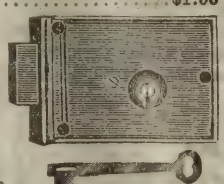
No. 4-A-710. Reversible. Size 2½x3¾ inches, for doors 1 to 1¾ inches thick. Japanned case, iron bolt, nickel plated brass solid knob and stop. Two nickel plated flat steel keys, bronze metal escutcheons, complete with screws and levers, bevel strike.
Price, each.....$0.25



CYLINDER NIGHT LATCH

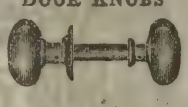
No. 4-A-711. Reversible. This is a strictly high grade lock and fully guaranteed. Size 2½x3¾ inches, Japanned iron case, bronze metal bolts, bronze metal knob and stop, bronze metal cylinder, three German silver keys, suitable for doors up to 3 inches thick, complete with screws.
Price, each.....$1.00

STORE DOOR LOCKS



No. 4-A-712. Upright rim store door lock. Reversible, Size 5x3 inches, heavy iron bolt, wrought steel inside works, two nickel plated steel folding keys, Japanned escutcheons, complete with screws.
Price, each.....$0.48

DOOR KNOBS



Knobs are 2¼ inch diameter, ⅞ inch spindle. Mineral knobs are brown mottled. Porcelain knobs are white. Jet knobs are black.

No. 4-A-713. Mineral Rim Knobs.
Price, each.....$0.06
Price, per doz..... .70

No. 4-A-714. Porcelain Rim Knobs.
Price, each.....$0.08
Price, per doz..... .90

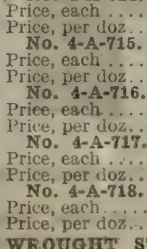
No. 4-A-715. Jet Rim Knobs.
Price, each.....$0.08
Price, per doz..... .90

No. 4-A-716. Mineral Mortise Knobs.
Price, each.....$0.06
Price, per doz..... .70

No. 4-A-717. Porcelain Mortise Knobs.
Price, each.....$0.08
Price, per doz..... .90

No. 4-A-718. Jet Mortise Knobs.
Price, each.....$0.08
Price, per doz..... .90

WROUGHT STEEL BALL TIPPED LOOSE PIN BUTTS



No. 4-A-719. Planished copper plated, antique copper finish. This is a heavy steel butt, and is most generally used. Finely finished and furnished complete with screws to match.

Size Inches	Price per Pair	Price per Doz. Pair
2 x2	$0.13	$1.35
2½x2½	.15	1.50
3 x3	.16	1.63
3½x3½	.17	1.75
4 x4	.21	2.15
4½x4½	.25	2.65
5 x5	.32	3.35

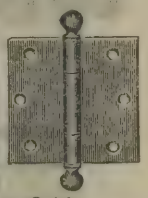
PLANISHED WROUGHT STEEL BUTTS

No. 4-A-720. Old or lemon brass finish.

Size Inches	Price per Pair	Price per Doz. Pair
2 x2	$0.14	$1.40
2½x2½	.16	1.65
3 x3	.17	1.75
3½x3½	.18	1.85
4 x4	.22	2.25
4½x4½	.26	2.75
5 x5	.33	3.50

WROUGHT STEEL BALL TIPPED LOOSE PIN BUTTS

No. 4-A-721. Guaranteed to be the best wrought steel butt manufactured. Highly polished and finely finished, furnished with screws to match.

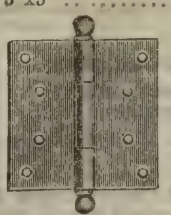


Antique copper finish, highly polished.

Size Inches	Price per Pair	Price per Doz. Pair
2 x2	$0.21	$2.10
2½x2½	.24	2.40
3 x3	.26	2.60
3½x3½	.30	3.00
4 x4	.34	3.50
4½x4½	.38	3.80
5 x5	.42	4.25

No. 4-A-722. Old or lemon brass finish.

Size Inches	Price per Pair	Price per Doz. Pair
2 x2	$0.22	$2.25
2½x2½	.25	2.65
3 x3	.27	2.80
3½x3½	.31	3.20
4 x4	.35	3.65
4½x4½	.39	4.00
5 x5	.43	4.50



WROUGHT STEEL JAPANNED LOOSE PIN BALL TIPPED BUTTS

No. 4-A-723. Without Screws.

Size Inches	Price per Pair	Price per Doz. Pair
2 x2	$0.05	$0.55
2½x2½	.06	.66
3 x3	.07	.77
3½x3½	.09	.99
4 x4	.11	1.20
4½x4½	.14	1.47
5 x5	.16	1.80

ORNAMENTAL WROUGHT STEEL SURFACE HINGES

These are a strong, heavy hinge, finely finished, intended for high class work, size 2¾x2 inches, packed with screws to match.

No. 4-A-724. Antique copper finish. Price per pair.....$0.10
Price per doz pair 1.00
No. 4-A-725. Old or lemon brass finish. Price per pair.....$0.10 Per doz. pair.....$1.00

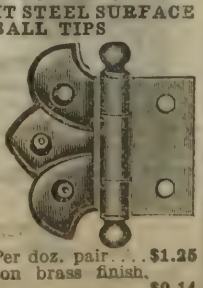
ORNAMENTAL SURFACE HINGES WITH BALL TIPS

Made of wrought steel strong, heavy and finely finished, suitable for high class work, size 2¾x2¼ inches, packed with screws to match.

No. 4-A-726. Antique copper finish. Price per pair..$0.14
Price, per doz. pair 1.25
No. 4-A-727. Old or lemon brass finish. Price per pair....$0.14
Price, per doz. pair 1.25

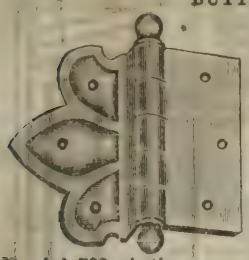
ORNAMENTAL WROUGHT STEEL SURFACE BUTTS, WITH BALL TIPS

Strong, heavy and finely finished, suitable for cabinet and cupboard doors. In listing the sizes of our surface butts we measure them by length of joint, still the surface part is one-half inch wider than the joint.



Packed with screws to match.
No. 4-A-728. Antique copper finish. Size 1½ inches. Price per pair....$0.14 Per doz. pair....$1.25
No. 4-A-729. Old or lemon brass finish. Size 1½ inches. Per pair.....$0.14
Price, per doz. pair..... 1.25

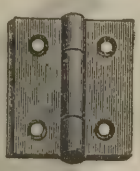
ORNAMENTAL WROUGHT STEEL SURFACE BUTTS



Strong, heavy and finely finished. These butts are more economical to use than other styles of butts. It is possible to hang a door in less than half the time it takes with old style butts. They are reversible for right or left hand doors by changing knob to oppcsite end. Packed with screws to match.

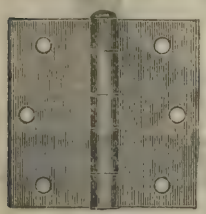
No. 4-A-730. Antique copper finish. Size 3 inches. Price per pair.....$0.25
Price, per doz. pair..... 2.75
No. 4-A-731. Old or lemon brass finish. Size 3 inches. Price per pair..... .25
Price, per doz. pair..... 2.75
No. 4-A-732. Antique copper finish. Size 3½ inches. Price per pair..... .30
Price, per doz. pair..... 3.25
No. 4-A-733. Old or lemon brass finish. Size 3½ inches. Price per pair..... .30
Price, per doz. pair..... 3.25
No. 4-A-734. Antique copper finish. Size 4 inches. Price, per pair..... .37
Price, per doz. pair..... 4.00
Old or lemon brass finish. Price, per pair..... .37
Price, per doz. pair..... 4.00

NARROW WROUGHT STEEL FAST PIN BUTTS



No. 4-A-735. Plain finish, without screws.

Length Inches	Price per Doz. Pair
1	$0.10
1½	.13
1½	.16
2	.21
2½	.28
3	.36

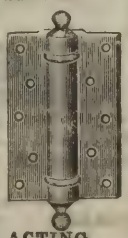


WROUGHT STEEL TRANSOM BUTTS

No. 4-A-736. Fast pin, antique copper finish, complete with screws.

Size Inches	Price per Pair	Price per Six Pair
2½x2½	$0.17	$0.97
3 x3	.21	1.18
3½x3½	.26	1.48

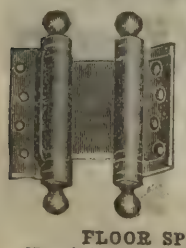
SINGLE ACTING SPRING HINGES



No. 4-A-737. Single acting Spring Hinges to swing one way, for either right of left hand doors. Have adjustable covered tension springs, black Japanned finish, and are easily put on. Prices are without screws.

Size Inches	For Doors inches thick	Price per Pair
3	½ to 1	$0.39
4	⅝ to 1½	.52
5	1 to 1½	.65
6	1½ to 1¾	.92
8	1½ to 2½	1.57

DOUBLE ACTING SPRING HINGES



No. 4-A-738. To swing both ways. Have adjustable covered tension springs. Black Japanned finish, easily put on. Prices are without screws.

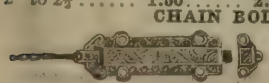
Size Inches	For Doors inches thick	Price per Pair
3	½ to 1	$0.80
4	⅝ to 1½	1.03
5	1 to 1½	1.25
6	1½ to 1¾	1.73
8	1½ to 3½	2.95

FLOOR SPRING HINGES

No. 4-A-739. Double acting. Will swing either way. Tension of spring can be changed without removing hinge or taking down the door.

For Door Thickness	Japanned Finish	Antique Copper Finish
½ to 1½	$1.00	$1.35
1½ to 2	1.25	1.65
2 to 2½	1.50	2.00

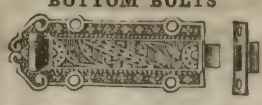
CHAIN BOLTS



No. 4-A-740. Ornamental bronze plated chain bolts, raised polished surface, complete with 2 feet of copper chain and screws.
Length, 6 inches. Price, each.....$0.25

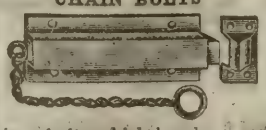
No. 4 - A - 741. Ornamental bronze plated bottom or foot bolts. Raised polished surface, complete with screws.

BOTTOM BOLTS



Price, each.....$0.24

CHAIN BOLTS



Wrought steel, antique copper highly polished finish. The wrought steel bolts are practically indestructible and are recommended in preference to the iron bolts which break so easily.
No. 4-A-742. Length 6 inches. Price, each.$0.35
No. 4-A-743. Length 8 inches. Price, each. .40

FOOT BOLTS

Wrought steel, antique copper highly polished finish, furnished complete with screws.
No. 4-A-744.
Length 6 inches. Price, each.....$0.30
No. 4-A-745. Length 8 inches. Price, each. .35

TRANSOM LIFTERS

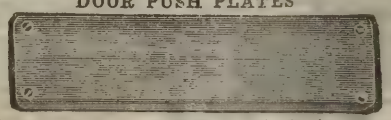
No. 4-A-746. Used in connection with transoms hinged at top, bottom or pivoted in the middle. By means of this Lifter transom can be opened and locked at any angle. The strongest Transom Lifter on the market.
Plain copper finished.

Length Feet	Price Each
3	$0.10
4	.12
5	.25
6	.30

No. 4-A-747. Transom Lifter. Antique copper finish.

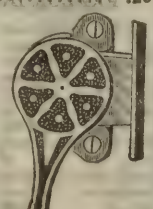
Length, Feet	Price, each
3	$0.17
4	.22
5	.32
6	.37

DOOR PUSH PLATES



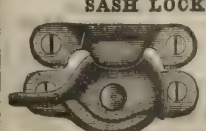
Genuine wrought bronze metal, finely finished, complete with screws to match.
Size 2¾x9¾ inches.
No. 4-A-748. Antique copper finish. Price, each.....$0.45
No. 4-A-749. Old or lemon brass finish. Price, each..... .48
Wrought steel, handsomely finished, size 2¾x9¾, with screws to match.
No. 4-A-750. Antique copper finish. Price.$0.20
No. 4-A-751. Old or lemon brass finish. Price..... .20

SIDE SASH LOCKS



No. 4-A-752. They do away with the rattling of windows and hold as firm as a vise. Will lock the sash securely at any desired point, affording an excellent and safe means of ventilation, complete with screws to match.
Antique copper finish.
Price, each.....$0.08
Price, per doz..... .90

SASH LOCKS



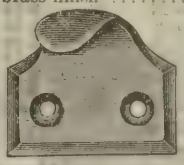
Wrought steel, strongly made and nicely finished. Will bring the sash close together and prevent rattling. Complete with screws to match.
No. 4-A-753. Antique copper finish.
Price, each.....$0.05
Price, per doz..... .48
No. 4-A-754. Old or lemon brass finish.
Price, each.....$0.05
Price, per doz..... .50

SPRING WINDOW BOLTS

No. 4-A-755. Japanned bolt, tinned case.
Price, per doz.....$0.08
Price, per gross..... .90

CASEMENT FASTENERS. Reversible

To be used in connection with casement or French windows, size 1⅜x1⅜, complete with screws to match.
No. 4-A-756. Iron antique copper finish.
No. 4-A-757. Iron, old or lemon brass finis.
Price, each.....$0.22
No. 4-A-758. Solid bronze metal, antique copper finish. Price, each.....$0.40
No. 4-A-759. Solid bronze metal, old or lemon brass finish.....$0.40



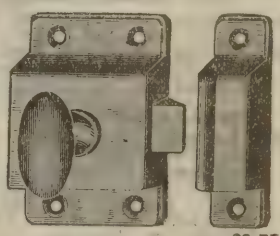
HOOK SASH LIFTS

Genuine bronze metal, bevel edge, finely finished. Complete with screws to match.
No. 4-A-760. Antique copper finish.
No. 4-A-761. Old or lemon brass finish.
Price, each.....$0.05
Price, per doz..... .50
No. 4-A-762. Wrought steel bevel edge, finely finished, complete with screws to match.
Antique copper finish.
Price, each.....$0.02
Price, per doz..... .20

BAR SASH LIFTS

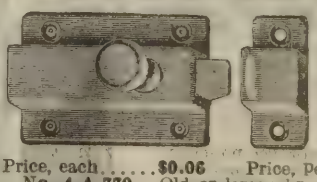
Genuine wrought bronze metal, finely finished, complete with screws.
No. 4-A-763. Antique copper finish.
Price, each.....$0.12 Price, per doz.....$1.20
No. 4-A-764. Old or lemon brass finish.
Price, each.....$0.12
Price, per doz..... 1.20
No. 4-A-765. Wrought steel, finely finished, complete with screws to match.
Antique copper finish.
Price, each.....$0.05
Price, per doz..... .50

CUPBOARD TURNS



Genuine wrought bronze metal finely finished, complete with screws to match.
No. 4-A-766. Antique copper finish.
Price, each..$0.25
Price, per doz 2.75
No. 4-A-767. Old or lemon brass finish.
Price, each..$0.25
Price, per doz.....$2.75
No. 4-A-768. Wrought steel, finely finished, complete with screws to match.
Antique copper finish.
Price, each.....$0.10
Price, per doz..... 1.10

CUPBOARD CATCHES



Wrought steel Cupboard Catches, nicely finished, complete with screws to match.
No. 4-A-769. Antique copper finish.
Price, each.....$0.06 Price, per doz..$0.60
No. 4-A-770. Old or lemon brass finish.
Price, each.....$0.06
Price, per doz..... .60
Genuine wrought bronze metal, finely finished complete with screws to match.
No. 4-A-771. Antique copper finish.
Price, each.....$0.14 Price, per doz...$1.45
No. 4-A-772. Old or lemon brass finish.
Price, each.....$0.14
Price, per doz..... 1.45

ELBOW DOOR CATCHES

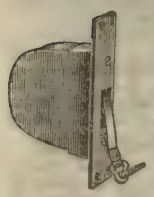
Used to fasten on double cupboard or china closet doors.
No. 4-A-773. Iron Japanned finish.

Price Each	Price per Doz.
$0.03	$0.21

No. 4-A-774. Iron bronze finish.
Price, each.....$0.04
Price, per doz..... .35

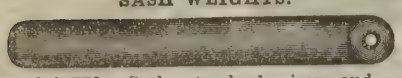
SASH BALANCES.

No. 4-A-777. Used instead of sash weights. Easy to apply and do not require box frames. Springs are finely tempered. We guarantee our balance to carry sash perfectly. A set consists of four balances, enough for two sashes.



No.	Weight of each Sash	Height of each Sash	Price per Set Of Four
6	4 to 6	34	$0.94
8	6 to 8	34	1.00
10	8 to 10	34	1.10
12	10 to 12	44	1.25
14	12 to 14	44	1.45
16	14 to 16	44	1.50
18	16 to 18	48	1.62
20	18 to 20	48	1.85
22	20 to 22	48	1.95
24	22 to 24	48	2.10
26	24 to 26	50	2.20
28	26 to 28	50	2.30
30	28 to 30	50	2.35
32	30 to 32	50	2.55
34	32 to 34	50	2.70
36	34 to 36	50	2.90

SASH WEIGHTS.



No. 4-A-778. Sash standard sizes and weights. Four weights required to hang each window. Weights range from 3 to 9 lbs. by half-pounds. Heavier than 9 lbs. weights graduate by pounds. Price, per lb. $0.01½

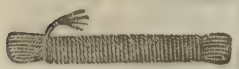
BRAIDED COTTON SASH CORD.

Made of especially selected long fiber cotton firmly braided and the most durable manufactured. Put up in 100 ft. bundles.

No. 4-A-779. No. 7 braided cotton sash cord, 7–32 inch diameter. Price, per bundle. $0.50

No. 4-A-780. No. 8 braided cotton sash cord, 8–32 inch diameter. Price, per bundle. ..... .57

PERFECTION HEMP SASH CORD.

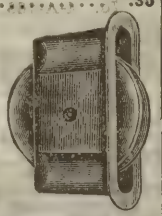


Made of a fine long fiber white Indian hemp cable laid. Put up in 100 ft. bundles.

No. 4-A-781. Perfection Hemp Sash Cord. No. 7 7–32 inch diameter. Price, per hundle. $0.30

No. 4-A-782. Perfection Hemp Sash Cord. No. 8 8–32 inch diameter. Price, per bundle. ..... .35

STEEL SASH PULLEYS.



No. 4-A-783. Made entirely of steel and electrically welded and cannot break. Requires no screws. Simply bore three holes and drive the pulley in. Diameter of wheel 2 inches. Price, per doz. $0.23

COMMON SENSE IRON SASH PULLEY.

No. 4-A-784. Mortised in with 1 inch bit. Diameter of wheel 2 inches. Price, per doz. $0.21

No. 4-A-785. Improved noiseless sash pulley. Face is polished antique copper finish, turned wheel 2¼ inch diameter. The smoothest running and best sash pulley on the market. Price, per doz. $1.10

DRAWER PULLS.

Wrought steel plated and nicely finished. Length 3¼ inch, complete with screws to match.

No. 4-A-786. Antique copper finish.
Price, each. $0.03
Price, per doz. ..... .26

DRAWER PULLS.

Genuine wrought bronze metal, finely finished and highly polished. Length 3¼ inch, complete with screws to match.

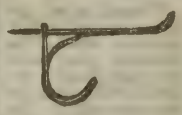
No. 4-A-787. Antique copper finish.
Price, each. $0.08
Price, per doz. ..... .85

No. 4-A-788. Old or lemon brass finish.
Price, each. $0.08
Price, per doz. ..... .85

WOOD BASE KNOBS.

No. 4-A-789. Made of hard wood rubber tipped.
Price, each. $0.02
Price, per doz. ..... .12

COAT AND HAT HOOKS.



No. 4-A-790. Made of copper plated spring steel wire, gimlet pointed screw. Length 3 inches.
Price, per doz. $0.06
Price, per gross. ..... .60

CLOSET AND WARDROBE HOOKS.

No. 4-A-791. Made of copper plated spring steel wire, gimlet pointed screw. Length 3 inches.
Price, per doz. $0.07
Price, per gross. ..... .75

FOOT SCRAPERS.

Made entirely from steel. The strongest, most rigid and durable foot scraper manufactured. Width, 6 inches. Height 2 inches, complete with screws.

No. 4-A-795.
Price, each. $0.05

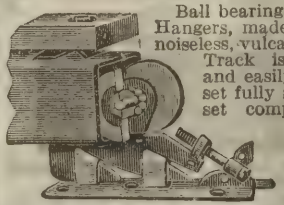
STORM THRESHOLDS.

Made of best quality gray iron casting. Keeps out the rain and snow. Size given is the length between jambs.

No. 4-A-796.

Size, inches	28	30	32	34
Price, each	$0.43	$0.46	$0.50	$0.54

PARLOR DOOR HANGERS AND TRACK.



Ball bearing steel Parlor Door Hangers, made entirely of steel, noiseless, vulcanized fiber wheels. Track is rigid and firm and easily adjusted. Each set fully guaranteed. Each set complete with track and all necessary fixtures. Full directions packed with each set.

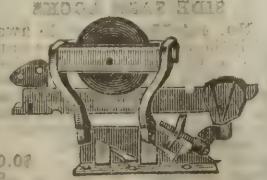
No. 4-A-792. For Double Doors.

Size opening, feet	4	5	6	7
Price, per set	$3.10	$3.20	$3.30	$3.45

No. 4-A-793. For Single Doors.

Size opening, feet	3	4	5	6
Price, per set	$1.60	$1.80	$2.10	$2.50

FIBER TREAD NOISELESS BALL BEARING PARLOR DOOR HANGERS AND TRACK.



The heaviest and best hanger of this type on the market. Complete with track and all necessary fixtures.

No. 4-A-794. For Double Doors with 14 feet of track and fixtures complete. Price, per set. $2.95

No. 4-A-794½. For Single Doors with 8 feet of track and fixtures complete. Price, per set. $1.50

DOOR BUTTONS

No. 4-A-775. Japanned iron, without screws.
Price, per doz $0.05
Price, per gross ..... .40

STOP BEAD SCREWS AND WASHERS

No. 4-A-776. Antique copper finish, finely polished.
Price, per doz $0.06
Price, per gross ..... .65

BASEMENT WINDOW SETS.

A great time saver for carpenters and builders. Are suitable for basement, dormer or attic windows. Hinged to swing. A strong lock presses the sash tightly into the frame. Excludes the cold and prevents rattling.

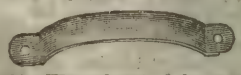
No. 4-A-797. Set for sash hinged at side. Consists of one pair 2½ inches wrought steel butts, one Japanned steel sash fastener, complete with screws, packed in box. Price per set. $0.12

No. 4-A-798. Set for sash hinged at top. Consists of one pair 2½ inch wrought steel butts, one Japanned steel sash fastener, one hook and eye, complete with screws, packed in box.
Price, per set. $0.15

THUMB LATCH.

No. 4-A-799. Ornamental cast iron, bronze finish, complete without screws.
Price, per set. $0.06
Price, per doz. sets. ..... .60

DOOR PULLS.



No. 4-A-800. Wrought steel door pulls, antique copper finish, length 4½ inches.
Price, each. $0.02
Price, per doz. ..... .20

SCREEN DOOR SETS.

No. 4-A-801. Consists of one pair heavy hold back spring hinges, Japanned finish, one steel door pull, one hook and screw eye. Price, per set. $0.10

SCREEN DOOR CATCHES.

No. 4-A-802. Vienna bronze finish, suitable for doors ⅞ to 1¼ inch thick, complete with screws.
Price, each. $0.12
Price, per doz. 1.25

No. 4-A-803. Antique copper finish, suitable for door ⅞ to 1¼ inch thick, complete with screws.
Price, each. $0.21
Price, per doz. 2.35

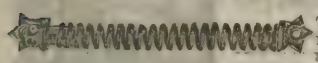
SCREEN DOOR HINGES.

No. 4-A-804. Hold back spring hinges. The strongest and best manufactured, Japanned case.
Price, per pair without screws.....$0.08
Price, per doz. pair without screws.....$0.85

TORREY'S READY DOOR SPRING.

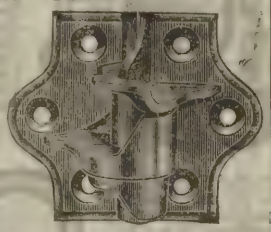
No. 4-A-805. A special wrench is supplied with each set for adjusting tension. Length, 39 inches.
Price, each.....$0.12
Price, per doz.....1.25

SPIRAL DOOR SPRINGS.



No. 4-A-807. This spring is neatly coiled and made from an extra grade of highly tempered strong wire, fastened securely to the bracket and spring holder and so arranged that the tension is adjustable. It can be made to throw the door open if so desired.
To secure best results, it should be fastened as nearly perpendicular as possible. Length over all 9 inches.
Price, each.....$0.09

BLIND HINGES.



No. 4-A-808. Clark's Gravity Locking Blind Hinges and Fasts for frame houses. Throws the blind 1¼ inch from the casing. Set includes 4 hinges and two fasteners but does not include screws.
Price, per set..$0.07
Price, per doz..$0.80

BARREL BOLTS.

No. 4-A-809. Wrought steel with Japanned plates, finished bolts, steel knobs.

Length inches	Price each	Price per doz.
3	$0.03	$0.33
4	.04	.44
5	.05	.55
6	06	.65

No. 4-A-810. Wrought steel antique copper finish nicely polished.

Length inches	Price each	Price per doz.
3	$0.07	$0.80
4	.09	1.00
5	.10	1.10
6	.11	1.20

CHEST HANDLES.

No. 4-A-811. Made of cast iron, Japanned finish. Price, per pair.....$0.07

STATIONARY CASTERS.

No. 4-A-812. Heavy cast iron stationary box or truck casters, strong and substantial.

Size wheel, inches	3	4
Price, each	$0.09	$0.13
Price, per doz.	1.05	1.50

SWIVEL CASTERS.

ANTI-FRICTION ROLLER BEARING BARN DOOR HANGERS

Made entirely of steel, except the wheel. The axle is of hardened steel and both wheel and axle are covered and protected from the weather. ⅜ inch bolts are used to put up these hangers and prices do not include bolts.

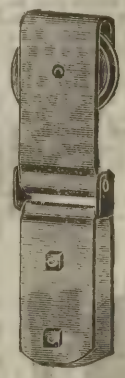
No. 4-A-841. Size of wheel 3½ inches for small and medium bolts.
Price, per pair.....$0.35
Price, per doz.....4.00

No. 4-A-842. Size of wheel 4 inches, suitable for the largest sized doors.
Price, per pair.....$0.45
Price, per doz.....5.00

LOOSE AXLE BARN DOOR HANGERS, MADE EXTRA HEAVY

Guaranteed not to bind or jump the track. Wheels are mounted on hardened steel axle, and owing to the construction of the hanger they are protected from the weather. ⅝ inch bolts are required to put on these hangers.
Prices do not include bolts.

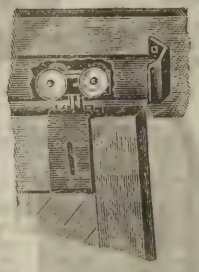
No. 4-A-843. For doors 6 ft. run, diameter of wheels 4 inches.
Price, per pair.....$0.60
No. 4-A-844. For doors 10 ft. run, diameter of wheels 5 inches.
Price, per pair.....$0.83



HINGE JOINT ROLLER BEARING BARN DOOR HANGERS

No. 4-A-845. Made entirely of steel, except wheel which is chilled gray iron, mounted on hardened steel axle. Can be used on any size door and any length run. Hinge joint makes the hanger flexible so that it will not bind or jump the track. The roller bearings are of special hardened steel and the best that can be secured. The wheel is protected from the weather. In connection with these hangers use ⅞x1¼ inch track.
Price, per pair.....$0.55

ROLLER BEARING TROLLEY BARN DOOR HANGERS

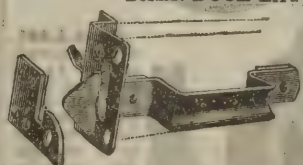


No. 4-A-846. The wheel runs inside of the hollow steel track, which protects it from the weather. Suitable for doors 1½ to 2½ inches thick. Guaranteed to be the easiest running hanger made and cannot bind or jump the track.
A set consists of two hangers, two end brackets, and one center bracket, complete with screws. Center brackets should be spaced not more than 3 ft. apart.
Price, per set.....$1.25
No. 4-A-847. Trolley track without brackets in lengths of 4, 5, 6, 8 and 10 feet. Price, per foot.....$0.10
No. 4-A-848. Steel center brackets. Price, each......10

STEEL BARN DOOR TRACK

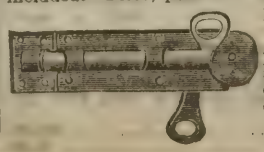
Double braced and designed to carry heavy doors. Furnished in lengths of 4, 6, 8 and 10 feet. Screws not included.
No. 4-A-849. Size ⅞x1 inch. Price, per ft..$0.03½
No. 4-A-850. Size ⅞x1¼ inch. Price, per ft. .04½

BARN DOOR LATCH

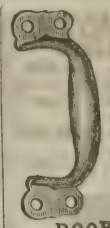


No. 4-A-851. Made entirely from wrought steel and is reversible. Can be operated from either side and applied to sliding or swinging doors. It is arranged so pad lock can be used in locking. Cannot be tampered with as all screws are concealed. Easily applied and should be used on all barn doors. Screws not included. Price, per set.....$0.25

BARN DOOR BOLT



No. 4-A-852. Heavy pattern, made especially for stables and outbuildings. Can be operated from either side. Length, 8 inches.
Price, each.....$0.15

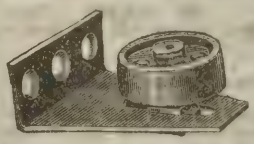


BARN DOOR PULLS

No. 4-A-856. Extra heavy cast iron Japanned. Price, each....$0.02½

DOOR CATCHES

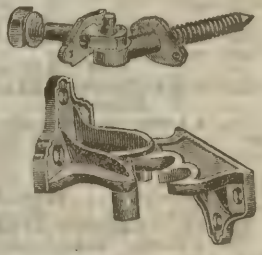
No. 4-A-857. Designed for holding open swinging doors. Made of heavy gray cast iron Japanned.
Price, each.....$0.04



BARN DOOR STAY ROLLERS

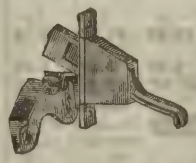
No. 4-A-858. For inside and outside doors, adjustable and reversible. Wheel 2 inches diameter.
Price, each.....$0.09

SELF CLOSING GATE HINGES



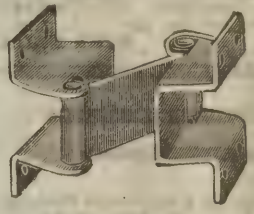
No. 4-A-859. Will swing both ways. We recommend these hinges where strength is required. Upper hinge is wrought iron. Lower hinge is cast Japanned finish.
Price, per set.$0.24

GATE LATCH



No. 4-A-860. The latch is encased, requiring but a small mortise through the stile and engages into the keeper on the post. It is adjustable to meet any sag in the gate. Suitable for right or left hand gates.
Price, each.....$0.07

DOUBLE ACTING STEEL GATE HINGE

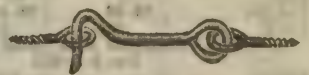


No. 4-A-861. Self closing, made entirely of steel. Strongest gate hinge manufactured.
Price, per set.....$0.40

GRAVITY GATE LATCH

No. 4-A-862. Made of steel and malleable iron. Is the only adjustable gate latch on the market. Overcomes shrinking and sagging of gate posts.
Price, each.....$0.18

GATE HOOKS AND EYES



No. 4-A-863. Bright steel wire.

Length, inches	2	3	4
Price, each	$0.01	$0.01	$0.02
Price, each	.06	.06	.10

WROUGHT HOOKS AND STAPLES

No. 4-A-864

Length Inches	Price Each	Price for six
4	$0.02	$0.08
6	.03	.12

HASPS AND STAPLES

No. 4-A-865. Made of wrought steel, with double hook.

Length Inches	Price Each	Price per Doz.
6	$0.02	$0.17
8	.02½	.21
10	.03	.28

IMPROVED COMBINATION HASP

No. 4-A-866. Hasp and hook combined, length 8 inches.
Price, each..$0.03½
Price, per doz .. .. .37

STEEL HINGE HASPS

No. 4-A-867. Prices do not include screws.

Length, inches	3	6	8	10
Price, each	$0.03	$0.05	$0.06	$0.09
Price, per doz	.35	.50	.70	.90

LIGHT WROUGHT STEEL STRAP HINGES

No. 4-A-868. Sizes given are half the length of hinge.

Size	3	4	5	6
Price, per pair	$0.03	$0.04	$0.05	$0.06
Price, per doz. pair	.33	.43	.45	.65

HEAVY WROUGHT STEEL STRAP HINGES

No. 4-A-869. Sizes given are half the length of hinge.

Size	6	8	10	12	14
Price, per pair	$0.06	$0.09	$0.17	$0.23	$0.27
Price, per doz. pair	.67	1.00	1.65	2.65	2.90

LIGHT WROUGHT STEEL "T" HINGES

No. 4-A-870. Measurements are from joint to end of hinge.

Size, inches	3	4	6	8
Price, per pair	$0.03	$0.04	$0.05	$0.06
Price, per doz. pair	.33	.43	.55	.65

HEAVY WROUGHT STEEL "T" HINGES

No. 4-A-871. Measurements are from joint to end of hinge.

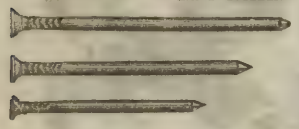
Size, inches	6	8	10	12	14
Price, per pair	$0.08	$0.14	$0.22	$0.30	$0.35
Price, per doz. pair	.90	1.60	2.50	3.40	4.00

WROUGHT STEEL SCREW STRAP HINGES

No. 4-A-872. Made of heavy wrought steel.

Size, inches	10	12	14
Price, per pair	$0.16	$0.21	$0.25
Price, per doz. pair	1.90	2.40	2.85

WIRE NAILS.



Strictly brand new and perfect. Prices quoted are subject to market changes. In event of decline in price you get the benefit of lower price.

Having a very large stock of wire nails we can take care of all reasonable requirements during the life of this catalog. However, should the price advance and there be a much larger demand than we anticipate, we would then be obliged to furnish nails at the prevailing market prices at the time order is received.

Kegs contain 100 lbs. Orders for less than full kegs will be charged for at pound price.

COMMON WIRE NAILS
No. 4-A-820

	2d	3d	4&5d	6&7d	8&9d	10-12 &16d	30-40 50&60d
Per keg	$2.95	2.70	2.55	2.45	2.35	2.30	2.25
Per lb	.03½	.03½	.03½	.03½	.03½	.03	.03

PLAIN SHINGLE NAILS
No. 4-A-821

Size	3d	4d	5d
Per keg	$2.30	$2.55	$2.55
Per lb	.03½	.03½	.03½

GALVANIZED SHINGLE NAILS
No. 4-A-822

Size	3d	4d
Per keg	$3.90	$3.90
Per lb	.05	.05

FINISHING NAILS
No. 4-A-823

	2d	3d	4& 5d	6 & 7d	10-12-16 & 20d
Per keg	$3.50	$3.10	$2.90	$2.70	$2.60
Per lb	.04½	.04½	.04	.04	.04

MIXED WIRE NAILS
A Very Handy Assortment

No. 4-A-824. 2,000 kegs of these nails on hand. We purchased them from the nail mills. They are mixed, all sizes in a keg. We have sold a great many of them during the past few years and they are very popular. The assortment ranges from about 3 to 30d, and mostly common and barbed nails in the assortment. Each keg contains from 100 to 115 lbs. of nails.

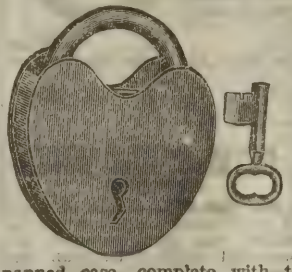
Price per single keg..$1.60
Price per keg in lots of 3 kegs.. 1.55
Price per keg in lots of 5 kegs.. 1.50

BRADS

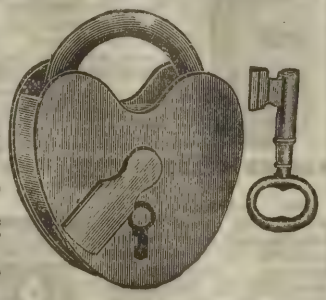
No. 4-A-826. Put up in one pound packages.

Length Inches	Gauge	Price Per lb.
¾	19	$0.10
⅞	18	.09
1	18	.07
1	17	.06
1	16	.06
1¼	15	.05
1½	15	.05

PAD LOCKS

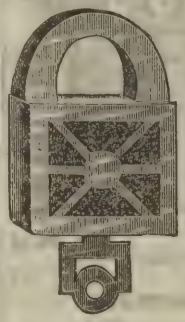


No. 4-A-827. Solid steel pad lock. This lock is not to be compared with the common cast iron lock which can be easily broken. The steel locks are much stronger and cannot be broken like the cast iron lock. This lock has strong shackle, is self locking, Jappanned case, complete with two keys. Width 2 inches.
Price, each..$0.08
Price, per doz.. .75

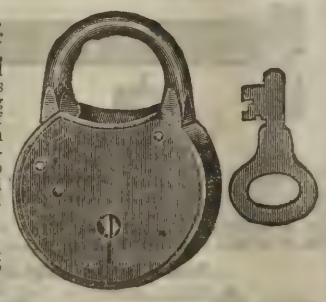


No. 4-A-828. Solid steel Pad Lock, strong shackle, self locking, Jappanned case with brass drop over key hole. Width 2 inches, complete with two keys.

Price Each	Price per Doz.
$0.12	$1.25

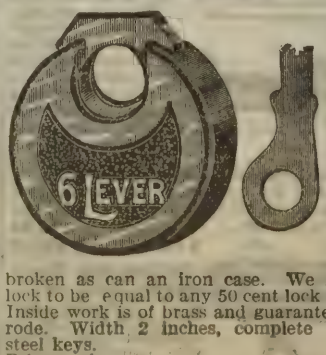


No. 4-A-829. Ornamental Brass plated steel pad lock, strong shackle, self locking, width 1 9/16 inch, complete with two flat keys.
Price, each..$0.10
Price, per doz .. 1.20



No. 4-A-830. Three Lever Pad Lock, heavy pressed steel, brass plated, strong shackle, self locking, width 2 inches, complete with two nickel plated flat steel keys.

Price Each	Price per Doz.
$0.14	$1.45



No. 4-A-831. Six Lever, brass plated, steel case pad lock. Do not compare this lock with iron case locks of similar style. There is no comparison. This lock is of much better construction and a steel case; cannot be broken as can an iron case. We guarantee this lock to be equal to any 50 cent lock on the market. Inside work is of brass and guaranteed not to corrode. Width 2 inches, complete with two flat steel keys.
Price, each..$0.20
Price, per doz.. 2.00

No. 4-A-832. The best pad lock manufactured. Made of solid gun bronze metal, all brass inside work, extra strong shackle, and locking bolts, dust proof plunger, closing shackle opener, cylinder key hole guide, finely finished, width 1⅝ inch, complete with two nickel plated flat steel keys.
Price, each..$0.47 Price, per doz..$5.00

No. 4-A-833. Same as No. 4-A-832. Solid gun bronze metal, all brass with 9 inches tinned steel chain.
Price, each..$0.55
Price, per doz .. 6.00

No. 4-A-834. Solid bronze bicycle lock, extra long shackle and bolts, self locking, furnished with 12 inches nickel plated chain with solid steel ring, complete with two keys.
Price, each..$0.25
Price, per doz .. 2.65

Rural Free Delivery solid brass pad lock. Dark oxidized background, all brass inside work, guaranteed rust proof. The best mail lock box made. Has automatic spring shackle that flies to quarter turn position when unlocked. Each lock has two keys and one master key for the mail carrier is furnished with each dozen locks. Width of lock 1⅝ inches, height of lock, including shackle 2¼ inches. A heavier and better lock than generally offered.

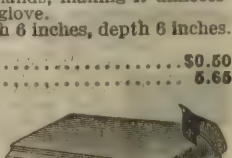
No. 4-A-836. Without chain. Price, each..$0.25
No. 4-A-837. With 6 inches brass chain. Price, each.. .29
No. 4-A-838. Extra master keys. Price, each .10

RURAL FREE DELIVERY MAIL BOXES
Approved by the Postmaster General.

No. 4-A-839. Square bottom, made of No. 20 gauge galvanized steel, painted with rust proof aluminum paint. All joints riveted. Edges nicely turned and finished. The cover overhangs, making it waterproof. Fitted with automatic flag signal and hasp for pad lock.

Each box is equipped with special coin holder which is operated by pushing a lever, the coin, falling into the carriers hands, making it unnecessary for him to remove glove.

Length 18 inches, width 6 inches, depth 6 inches. Weight 6½ lbs.
Price, with coin holder..$0.50
Price, per doz.. 5.65



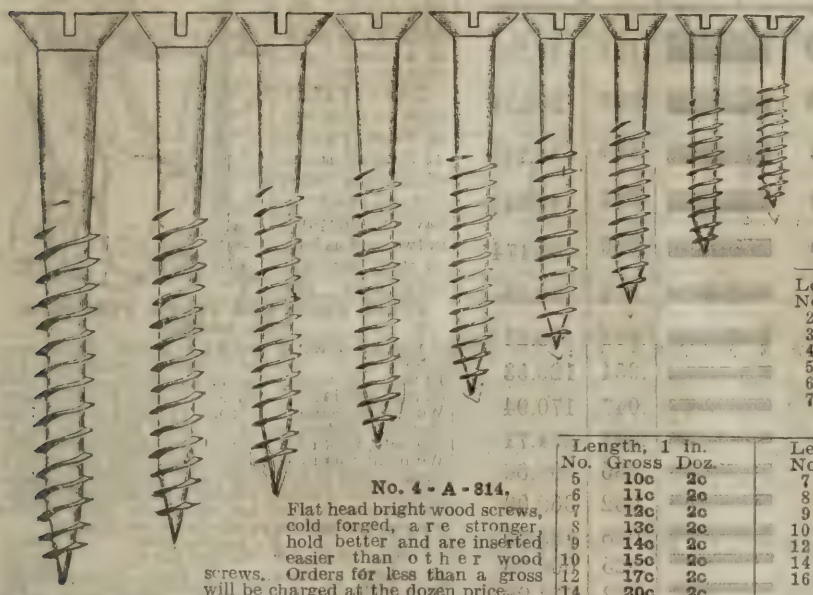
No. 4-A-840. Round Bottom Mail Boxes, made of No. 20 gauge galvanized steel, painted with rust proof aluminum paint, fitted with automatic flag signal and hasp for pad lock. Sloping roof and guaranteed to be weatherproof and the best box manufactured.

Equipped with special coin holder. Length 18 inches, width 6 inches, depth 6 inches, weight, 7 lbs.
Price, each..$0.65 Price, per doz..$7.20

WOOD SCREWS

Length, by inches—

3	2¾	2½	2¼	2	1¾	1½	1¼	1	⅞	¾	⅝	½	⅜	¼
Size No—														
20	18	16	14	12	10	9	8	7	6	5	4	3	2	1



No. 4-A-814.
Flat head bright wood screws, cold forged, are stronger, hold better and are inserted easier than other wood screws. Orders for less than a gross will be charged at the dozen price.

Length, ¼ in.

No.	Gross	Doz.
1	8c	1c
2	8c	1c
3	8c	1c

Length, ⅜ in.

No.	Gross	Doz.
1	8c	1c
2	8c	1c
3	8c	1c
4	8c	1c

Length, ½ in.

No.	Gross	Doz.
2	8c	2c
3	8c	2c
4	9c	2c
5	9c	2c
6	10c	2c

Length, ⅝ in.

No.	Gross	Doz.
2	8c	2c
3	8c	2c
4	8c	2c
5	9c	2c
6	10c	2c
7	11c	2c

Length, ¾ in.

No.	Gross	Doz.
4	9c	2c
5	9c	2c
6	10c	2c
7	11c	2c
8	12c	2c
9	13c	2c
10	14c	2c

Length, ⅞ in.

No.	Gross	Doz.
5	9c	2c
6	10c	2c
7	10c	2c
8	12c	2c
9	12c	2c
10	13c	2c
12	16c	2c

Length, 1 in.

No.	Gross	Doz.
5	10c	2c
6	11c	2c
7	12c	2c
8	13c	2c
9	14c	2c
10	15c	2c
12	17c	2c
14	20c	2c

Length, 1¼ in.

No.	Gross	Doz.
7	13c	3c
8	14c	3c
9	15c	3c
10	16c	3c
12	18c	3c
14	22c	3c
16	30c	3c

Length, 1½ in.

No.	Gross	Doz.
8	15c	3c
9	16c	3c
10	17c	3c
12	20c	3c
14	24c	3c
16	32c	3c

Length, 1¾ in.

No.	Gross	Doz.
9	18c	3c
10	19c	3c
12	20c	4c
14	26c	4c
16	33c	4c
18	45c	4c

Length, 2 in.

No.	Gross	Doz.
10	20c	4c
12	23c	4c
14	28c	4c
16	35c	4c
18	47c	4c

Length, 2¼ in.

No.	Gross	Doz.
12	25c	4c
14	30c	4c
16	40c	5c
18	52c	5c

Length, 2½ in.

No.	Gross	Doz.
12	30c	5c
14	33c	5c
16	42c	5c
18	53c	5c
20	66c	5c

Length, 3 in.

No.	Gross	Doz.
14	40c	7c
16	48c	7c
18	62c	7c
20	74c	7c

Length, 3½ in.

No.	Gross	Doz.
16	57c	8c
18	68c	9c
20	83c	10c

Length, 4 in.

No.	Gross	Doz.
18	88c	10c
20	97c	10c

FLAT HEAD JAPANNED WOOD SCREWS

No. 4-A-816.

Length Inches	Size Number	Price Per Doz.	Price Per Gross
⅞	8	$ .03	$ .18
⅞	9	.03	.19
⅞	10	.03	.20
1	8	.03	.19
1	9	.03	.20
1	10	.03	.21
1	12	.03	.23
1¼	8	.03	.20
1¼	9	.03	.21
1¼	10	.03	.22
1¼	12	.03	.26
1½	8	.03	.21
1½	9	.03	.23
1½	10	.03	.24
1½	12	.03	.28

ROUND HEAD NICKEL PLATED IRON SCREWS

No. 4-A-817.

Length Inches	Size Number	Price Per Doz.	Price Per Gross
⅝	3	$ .02	$ .17
⅝	4	.02	.17
½	3	.02	.17
½	4	.02	.17
½	5	.02	.18
⅝	4	.03	.18
⅝	5	.03	.19
⅝	6	.03	.20
⅝	7	.03	.21
¾	5	.03	.19
¾	6	.03	.20
¾	7	.03	.21
¾	9	.03	.23
⅞	6	.03	.20
⅞	7	.03	.21
⅞	8	.03	.23
⅞	9	.03	.24
⅞	10	.03	.26
1	6	.03	.21
1	7	.03	.22
1	8	.03	.24
1	9	.03	.25
1	10	.03	.27
1¼	6	.03	.23
1¼	7	.03	.24
1¼	8	.03	.25
1¼	9	.03	.26
1¼	10	.03	.28
1½	8	.04	.30
1½	9	.04	.32
1½	10	.04	.34
1½	12	.04	.37

ROUND HEAD BLUED WOOD SCREWS

No. 4-A-815.

Length Inches	Size Number	Price Per Doz.	Price Per Gross
¾	5	$ .02	$ .13
¾	6	.02	.14
⅞	5	.02	.13
⅞	6	.02	.14
⅞	7	.02	.15
⅞	8	.02	.17
1	6	.03	.14
1	7	.03	.16
1	8	.03	.17
1	10	.03	.21
1¼	7	.03	.18
1¼	8	.03	.19
1¼	9	.03	.21
1¼	10	.03	.23
1½	10	.03	.26
1½	12	.03	.28
1½	14	.03	.33
1¾	12	.04	.30
1¾	14	.04	.38

FLAT HEAD BRASS SCREWS

No. 4-A-819.

Length Inches	Size Number	Price Per Doz.	Price Per Gross
⅝	2	$ .02	$ .19
⅝	3	.02	.20
⅝	4	.02	.21
½	3	.03	.21
½	4	.03	.22
½	5	.03	.25
⅝	4	.03	.24
⅝	5	.03	.27
⅝	7	.03	.33
¾	5	.03	.28
¾	7	.04	.36
¾	9	.04	.47
⅞	6	.04	.34
⅞	7	.04	.39
⅞	8	.04	.45
⅞	9	.05	.51
1	6	.04	.37
1	7	.04	.43
1	8	.05	.50
1	9	.05	.57
1	10	.06	.64
1¼	7	.05	.50
1¼	8	.06	.58
1¼	9	.06	.65
1¼	10	.07	.71
1¼	12	.08	.95
1½	8	.06	.67
1½	9	.07	.74
1½	10	.08	.86
1½	12	.09	1.08

ROUND HEAD BRASS SCREWS

No. 4-A-818.

Length Inches	Size Number	Price Per Doz.	Price Per Gross
⅜	2	$ .03	$ .21
⅜	3	.03	.22
⅜	4	.03	.24
½	3	.03	.24
½	4	.03	.25
½	5	.03	.28
⅝	4	.03	.27
⅝	5	.03	.30
⅝	7	.04	.37
¾	5	.04	.32
¾	7	.04	.40
¾	9	.05	.53
⅞	6	.04	.38
⅞	7	.04	.44
⅞	8	.05	.51
⅞	9	.06	.58
1	6	.04	.41
1	7	.05	.48
1	8	.05	.56
1	9	.06	.64
1	10	.07	.72
1¼	7	.05	.56
1¼	8	.06	.65
1¼	9	.07	.74
1¼	10	.08	.80
1¼	12	.09	1.07
1½	8	.08	.76
1½	9	.08	.84
1½	10	.10	.98
1½	12	.11	1.23

WOOD LAG SCREWS.

Assorted Sizes and Lengths.

No. 4-A-1526.

	Price per lb.
Mixed, any quantity, not less than 10 lbs.	$0.03
In lots of 25 lbs.	.02½
In lots of 50 lbs.	.02½
In lots of 100 lbs.	.02

TABLE OF SIZES AND LENGTH OF IRON AND STEEL WIRE.

No. 4-A-1469.

No.	Full Size of the Wire.	Dec'ls of Inch.	Feet in a Pound.	No.	Full Size of the Wire.	Dec'ls of Inch.	Feet in a Pound.
000		.362	2.87	10		.135	20.70
				11		.120	26.174
00		.331	3.44	12		.105	34.240
				13		.092	44.640
0		.307	4.00				
				14		.080	59.174
1		.283	4.71	15		.072	72.99
				16		.063	95.23
2		.263	5.45	17		.054	129.53
				18		.047	170.94
3		.244	6.333	19		.041	224.71
				20		.035	308.66
4		.225	7.450	21		.032	369.00
				22		.028	483.09
5		.207	8.810	23		.025	606.06
				24		.023	714.28
6		.192	10.230	25		.020	943.39
				26		.018	1176.47
7		.177	12.047	27		.017	1315.79
				28		.016	1492.54
8		.162	14.365	29		.015	1694.91
				30		.014	1960.78
9		.148	17.240				

WIRE TABLE OF WEIGHTS.

No. 4-A-1470.

Gauge No.	Weight of 100 feet in pounds.	Feet per 100 pounds.	Weight of 1 mile in pounds
8	6.96	1436	367
9	5.80	1724	306
10	4.83	2076	255
11	3.82	2617	202
12	2.92	3424	154
13	2.24	4464	118
14	1.69	5917	89
15	1.37	7299	72
16	1.05	9523	55
17	.772	12953	41
18	.585	17094	31
19	.445	22471	24
20	.324	30866	
21	.271	36900	

GALVANIZED WIRE SHORTS.

No. 4-A-1471.

This term is used to denote smooth, new wire secured by us under contract from the various wire mills. It is galvanized and extensively used for building fences and many other purposes. It is put up one gauge only in a bale, each containing 100 lbs.

Regular Galvanized Wire Shorts, lengths in a bale ranging anywhere from 45 to 250 feet.

Prices as follows:

Gauges	Price 100 lbs.	Gauges	Price 100 lbs.
5	$1.40	12	$1.50
6	1.40	14	1.60
7	1.40	15	1.60
8	1.40	16	1.90
9	1.50	17	1.90
10	1.50	18	2.40
11	1.50	19	2.40

PAINTED WIRE SHORTS.

No. 4-A-1472.

The same general description applies to this grade as to the galvanized, the difference being that some of the galvanizing is imperfect, and the wire is therefore painted.

It is in two grades.

Gauges	Price 100 lbs.	Gauges	Price 100 lbs.
8	$1.15	11	$1.25
9	1.25	12	1.25
10	1.25	14	1.25

SMOOTH GALVANIZED FENCE WIRE.

Continuous Lengths.

No. 4-A-1473.

This wire is strictly first class, fully guaranteed, in full lengths; put up in catch weight coils of about 100 lbs. to the coil, at following prices per 100 lbs:

No. 9	$2.40	No. 12	$2.55
No. 11	2.50	No. 14	2.75

Prices subject to market changes.

ANNEALED PLAIN WIRE.

No. 4-A-1474.

This wire is new material put up in original coils just as it came from the factory. The word "annealed" means that the wire has been put through a special process, which renders it soft and pliable. It is plain finished; in other words, there is no finish to it of any kind, just as it comes from the mill without the galvanizing or painting process.

Price per 100 lbs as follows:

No. 9	$2.10	No. 14	$2.45
No. 11	2.20	No. 15	2.55
No. 12	2.25	No. 16	2.65

TWISTED WIRE FENCE.

No. 4-A-1475.

This wire is made the same as barbed wire with the omission of the barbs; in other words, it is two strands of wire twisted together. Comes in painted and galvanized. Put up on reels same as barbed wire, catch weight, of about 100 lbs.

Our price per 100 lbs.

Painted $1.85 Galvanized $2.25

POULTRY FENCING

(Special Job)

No. 4-A-1476. 500 rolls 2 in. hexagon mesh poultry netting, put up 150 lineal feet to a roll. This extra heavy material is made of No. 16 specially galvanized wire; all 18 in. high.

Price, per roll of 150 lineal ft. $1.25

SPECIAL JOB OF BARBED WIRE.

No. 4-A-1477.

Five carloads of wire secured from a recent steam boat disaster. Some of this was more or less wet and rusty, but is in generally good condition for further service. All goods put up on reels. We can furnish only the following:

No. 4 pt. galvanized per 100 lbs.	$2.00
No. 4 pt. painted " " "	1.75
No. 2 pt. painted " " "	1.85

BARBED WIRE STRETCHER.

No. 4-A-1478.

The cut represents Barbed Wire Stretcher, of which no explanation is necessary. We bought several hundreds of these at a forced sale sometime ago.

The regular price on them was 50 cents each. As these are somewhat shop worn and rusted we have cut this price in two, and as long as they last will sell them at...25c

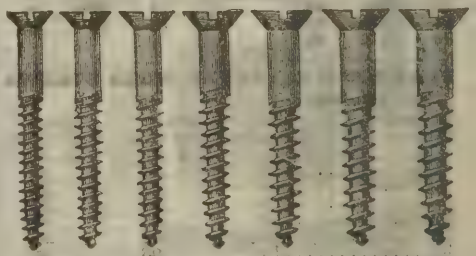
STEEL POSTS FOR FENCE PURPOSES.

No. 4-A-1479.

We manufacture special to length round steel tubular posts. We can furnish in length from 4 to 12 feet. In estimating the length of post you need be sure you include sufficient to drive in the ground. We would recommend from 1½ to 2 feet in the ground. A great many of these posts are set in concrete, making a solid, lasting, immovable post. We paint them before shipment. Our coating is a combination of asphaltum and graphite and other ingredients, specially prepared for lasting qualities. The diameters noted are the outside sizes. Prices are per foot and no extra charge for cutting.

No.	Diameter	Approximate Weight per ft.	Price per ft.
18-A-1479	2 inches	2 lbs.	$0.03½
18-A-1479	2½ "	2½ "	.04½
18-A-1479	3 "	3½ "	.06½
18-A-1479	3½ "	4½ "	.08½
18-A-1479	4 "	5½ "	.10½

WOOD SCREWS.



No. 4-A-1480. New Wood Screws, all sizes and lengths, mixed together, all in perfect condition In any quantity, but not less than 5 lbs.

Per lb. $0.10

No. 4-A-1481. Brass Wood Screws, all sizes, mixed together. In any quantity, not less than 2½ lbs.

Per lb. $0.22

SPECIAL SALE OF NAILS.

No. 4-A-1482.

Secured from a recent steam boat disaster. These nails we are offering are regular stock of wire nails, except that they are wet and are more or less rusted and are sold at "as are." They are put up regularly 100 lbs. to the keg. Order by lot No.

Mixed Nails.

No. 4-A-1483. All kinds to the keg, just as they come, no guaranteed assortment. Per keg..$1.50

No. 4-A-1484. Nails one size to the keg ranging from 3d to 60d inclusive and including common casing and finishing, subject to stock on hand.

Price per keg of 100 lbs. $1.75

MIXED RIVETS.

No. 4-A-1485. A carload of new rivets of all kinds mixed together. This includes tinners' rivets, machinists' rivets, wagon makers' sheet iron rivets; in fact, rivets of all kinds. No guaranteed assortment; we sell them just as they come.

Price per lb. as follows:

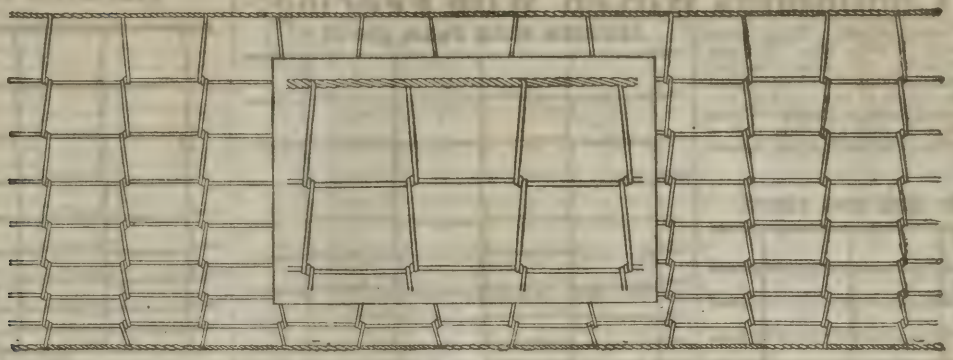
Lots of 25 lbs.	$0.04 per lb.
Lots of 50 lbs.	.03½ per lb.
Lots of 100 lbs.	.03 per lb.
Lots of 250 lbs. or more	.02½ per lb.

LARGE BOLTS.

No. 4-A-1486. We have several sizes of large sized mixed bolts that we secured, in connection with our dismantling the World's Fair at St. Louis. They are not in very good condition, but they are good enough for general purposes and range in size from ¾ to 1½ in. diameter, and in lengths from 16 to 21 in.

We will sell them mixed in lots of 500 lbs. at price per lb. of $0.01½

Premier Continuous Woven Wire Fencing



The Strongest and Best Fence in the World

Stays spaced 6 inches apart. The top and bottom wires of the Premier Fence consist of two heavy galvanized wires, No. 12, twisted together. The intermediate wires or bars, also the stays, are made of No. 12 gauge galvanized wire. The stay wire is twisted with the two wires in the top bar, then it passes down across all intermediate bars and is twisted with each of these at intersecting points. It is then twisted in with the two wires of the bottom bar for a space of 6 inches, when it again passes upwards and the same process repeated.

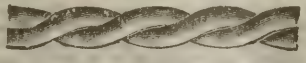
The method of construction of this fence affords the best and most reliable means of preventing extreme expansion and contraction.

The illustration shown here will give you an idea as to just how the lateral wires cross upon and engage each other. Note the evenness. The wires are wound round about each other without any angle, thus preventing the wires from breaking. A smooth, even twist will not be found in any other fence.

A Continuous Woven Wire Fence

You will note from the illustrations and description of the construction that the Premier Fencing has a continuous stay wire, which being twisted into the cable from one stay to the other makes the fence perfectly smooth and leaves no chance for the ends to unravel and become detached from the horizontal bars. **It has no loose ends to untwist, unwind or become loose and endanger the stock.**

No. 1



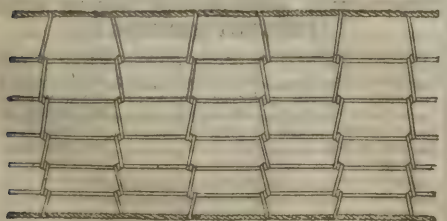
No. 2

No. 3

AS A PORTABLE FENCE

This fence can be put up temporarily if desired, and taken down, rolled up and transported to some other part of the farm or ranch for temporary or permanent use. It is so firmly interwoven and perfectly smooth that it does not injure the hands, nor will it lose its shape or uniformity of its meshes with any amount of handling. The fence is so strong and rigid that when used as a temporary fence it requires but very few posts. If good anchor posts are put up at each end of the fence, intermediate posts may be placed anywhere from 20 to 40 feet.

PREMIER HOG FENCE



No. 24-A-1. Height 25 inches. Stays spaced 6 inches apart. Has seven horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2¼, 3¼, 3¼, 4½, 5 and 5½ inches.

Placed 2 inches from the ground it stands 2 ft. 3 inches high.

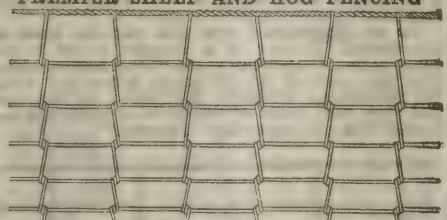
Generally used with one strand of barb wire 6 inches above the fence, the second strand 8 inches above the first strand and the third strand 10 inches above the second strand, which makes a fence 4 feet 3 inches high.

Furnished in rolls containing 20 rods.

Weight, per 100 rods, 700 lbs.

Price, per rod.....**$0.23**

PREMIER SHEEP AND HOG FENCING



No. 24-A-2. Height 31 inches. Stays spaced 6 inches apart. Has eight horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2¼, 2¾, 3¼, 4½, 5, 5½ and 6 in.

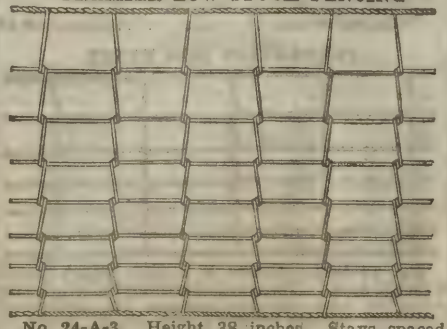
Placed 2 inches from the ground it stands 2 feet 9 inches high. Used in connection with barb wire as a sheep and hog fencing.

Furnished in rolls containing 20 rods.

Weight, per 100 rods, 800 lbs.

Price, per rod.....**$0.27½**

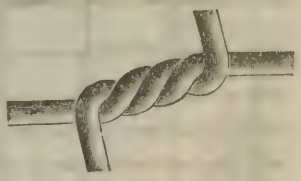
PREMIER LOW STOCK FENCING



No. 24-A-3. Height 38 inches. Stays spaced 6 inches apart. Has nine horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2⅞, 3¼, 3¼, 4½, 5, 5½, 6 and 7 inches.

Placed 2 inches from the ground it stands 3 feet 4 inches high. Additional strands of barb wire may be used to give it the desired height. Furnished in rolls containing 20 rods. Weight, per 100 rods, 900 lbs. Price, per rod.....**$0.31**

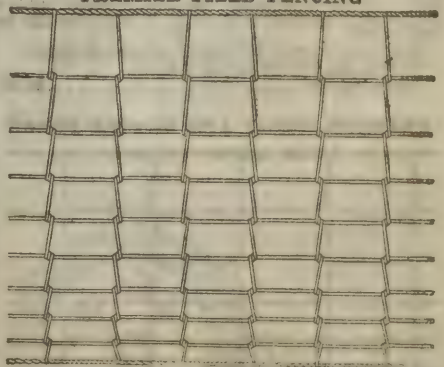
The benefits of a continuous woven wire fence cannot be over estimated. They are much stronger, and in every sense more effective than any fence that is constructed with a single top and bottom wire.



No. 4

The illustrations shown are actual size of the wire used in the construction of the Premier Fencing: No. 1 is single wire. No. 12 gauge is that used throughout the fence. No. 2 shows double cable, representing two wires twisted together, and is the actual size of the top cable. Cut No. 3 shows three wires twisted together, actual size of the bottom cable, used in the construction of Premier Woven Wire Fencing.

PREMIER FIELD FENCING



No. 24-A-4. This fence is also used for pasture and road fences. Height 46 inches. Stays spaced 6 inches apart. Has ten horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2⅞, 3⅛, 4½, 5, 5½, 6, 7 and 8 inches.

Placed 2 inches from the ground, it stands 4 feet high. A strand of barb wire or cable makes it high enough for horses.

Furnished in rolls containing 20 rods.

Weight, per 100 rods, 1,000 lbs.

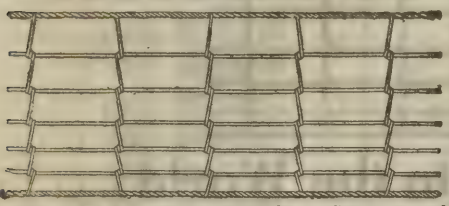
Price, per rod.....**$0.35**

WOVEN WIRE FENCING--Continued.

Premier Continuous Woven Wire Fencing.

Stays spaced 12 inches apart. This being our Premier Continuous Woven Wire Fencing, it is all made in exactly the same manner. No. 12 wire is used throughout its construction. It has the twisted wire cables at the top and bottom. This fencing is sufficiently strong to turn any kind of stock and will stop any hog that is not too small to be confined by stay wires, spaced 12 inches apart.

PREMIER SHEEP AND HOG FENCE

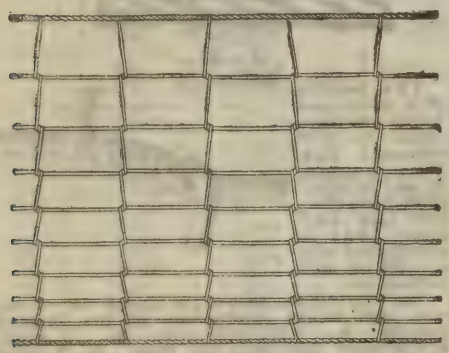


No. 24-A-6. Height 25 inches. Stays spaced 12 inches apart. Has seven horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2⅞, 3⅜, 3⅞, 4½, 5 and 5½ inches.

Placed 2 inches from the ground, it stands 2 feet 3 inches high. One strand of barb wire 6 inches above the fence, the second strand 8 inches above the first strand and the third strand 10 inches above the second strand makes a fence 4 feet 3 inches high.

Furnished in rolls containing 20 and 40 rods.
Weight per 100 rods, 575 lbs.
Price, per rod.....$0.19½

PREMIER CONTINUOUS WOVEN WIRE FIELD FENCE

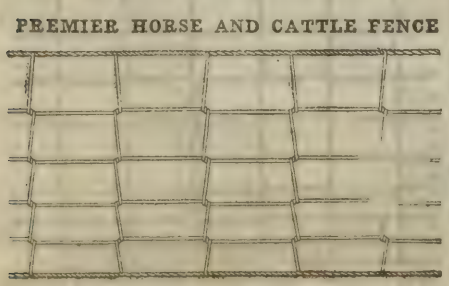


No. 24-A-8. Height 46 inches. Stays spaced 12 inches apart. Has ten horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2⅞, 3⅜, 3⅞, 4½, 5, 5½, 6, 7 and 8 inches.

Placed 2 inches from the ground it stands 4 feet high. A strand of barb wire 6 or 8 inches above the fence is necessary to make it high enough to hold horses.

Furnished in rolls containing 20 and 40 rods.
Weight per 100 rods, 875 lbs.
Price, per rod.....$0.29

PREMIER HORSE AND CATTLE FENCE

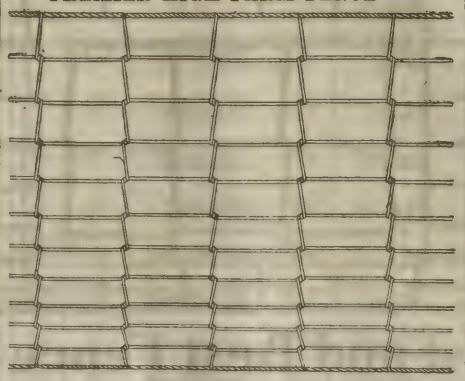


No. 24-A-7. Height 36 inches. Stays spaced 12 inches apart. Has six horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 6, 6, 7, 8 and 9 inches.

Placed two inches above the ground it stands 4 feet 8 inches high. On account of the spacing, this fence should not be placed near the ground for turning hogs and small stock.

Furnished in rolls containing 20 and 40 rods.
Weight per 100 rods, 560 lbs.
Price, per rod.....$0.19

PREMIER HIGH FARM FENCE



No. 24-A-9. Height 60 inches. Stays spaced 12 inches apart. Has 12 horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2⅞, 2⅞, 3⅜, 3⅞, 4½, 5, 5½, 6, 7, 8 and 9 inches.

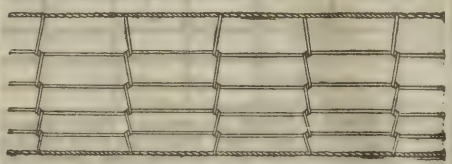
Placed 2 inches from the ground it stands 5 feet high. This fencing is made especially for those who want an exceptionally high fence, but do not like a barb wire above it.

Furnished in rolls containing 20 and 40 rods.
Weight per 100 rods, 925 lbs.
Price, per rod.....$0.33

Perfection Continuous Woven Wire Fencing.

Made exactly the same as our Premier Woven Wire Fencing with the exception that it is made entirely of No. 13 gauge galvanized wire which makes an extremely reliable and satisfactory fence for general farm use. We do not, however, recommend this fencing in places where it is liable to great strain, such as barn yards and feed lots.

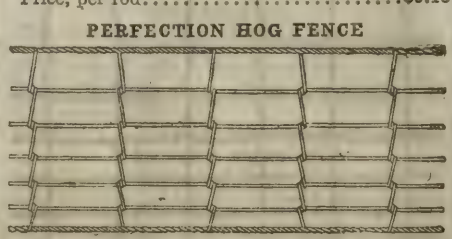
Do not understand from this that the fence is not strong. In fact, it is stronger owing to its construction, than many of the woven wire fencings that are made of No. 12 gauge galvanized wire. We recommend, however, that where the heaviest and very best grade of woven wire fencing is required that you order the "Premier."



No. 24-A-10. Height 19 inches. Stays spaced 12 inches apart. Has six horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2½, 3⅜, 3½, 4½ and 5 inches. It is especially adapted for stretching along the bottom of hedge fence to make them hog tight.

Furnished in rolls containing 20 and 40 rods.
Weight per 100 rods, 491 lbs.
Price, per rod.....$0.15

PERFECTION HOG FENCE

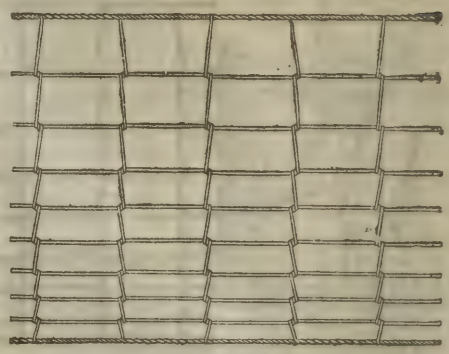


No. 24-A-11. Height 25 inches. Stays spaced 6 inches apart. Has seven horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2⅞, 3⅜, 3⅞, 4½, 5 and 5½ inches.

Placed 2 inches from the ground it stands 2 feet 3 inches high. This is an excellent hog fence. One strand of barb wire 6 inches above the fence, the second strand 8 inches above the first strand and the third strand 10 inches above the second strand, makes a fence 4 feet 3 inches high.

Furnished in rolls containing 20 and 40 rods.
Weight per 100 rods, 597 lbs.
Price, per rod.....$0.20½

PERFECTION STOCK FENCING



No. 24-A-12. Height 46 inches. Stays spaced 12 inches apart. Has ten horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2⅞, 3⅜, 3⅞, 4½, 5, 5½, 6, 7 and 8 inches.

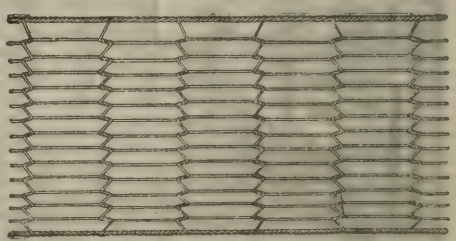
Placed 2 inches from the ground it stands 4 feet high. A strand of barb wire 6 or 8 inches above the fence is necessary to make it high enough for horses.

Furnished in rolls containing 20 and 40 rods.
Weight per 100 rods, 663 lbs.
Price, per rod.....$0.24

Perfection Continuous Woven Wire Fencing.

This fence is woven exactly in the same manner as our Premier Continuous Woven Wire Fencing, and is exactly the same in every respect, except that it is made of No. 14 wire. This is the most satisfactory poultry fencing that is constructed, and is sufficiently strong to stop hogs or sheep.

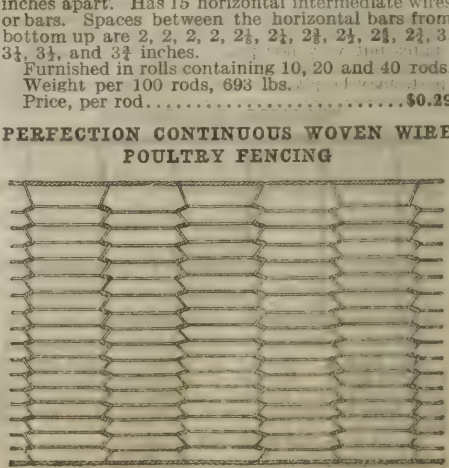
This is also very popular for yard fence and the illustration fails to do justice to the neatness of its appearance when nicely stretched on suitable posts.



No. 24-A-13. Height 36 inches. Stays spaced 9 inches apart. Has 15 horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2, 2, 2, 2, 2⅛, 2¼, 2⅜, 2½, 2⅝, 2¾, 3, 3¼, 3½, and 3¾ inches.

Furnished in rolls containing 10, 20 and 40 rods.
Weight per 100 rods, 693 lbs.
Price, per rod.....$0.29

PERFECTION CONTINUOUS WOVEN WIRE POULTRY FENCING



No. 24-A-14. Height 48 inches. Stays spaced 9 inches apart. Has 18 horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2, 2, 2, 2, 2⅛, 2¼, 2⅜, 2½, 2⅝, 2¾, 3, 3¼, 3½, 3¾, 4, 4, and 4 inches.

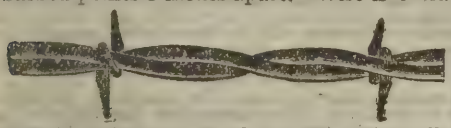
Furnished in rolls containing 10, 20 and 40 rods.
Weight per 100 rods, 832 lbs.
Price, per rod.....$0.34

PERFECTION CONTINUOUS WOVEN WIRE POULTRY FENCING

No. 24-A-15. Height 60 inches. Stays spaced 9 inches apart. Has 17 horizontal intermediate wires or bars. Spaces between the horizontal bars from bottom up are 2, 3, 3, 3½, 2½, 2½, 3, 3½, 5½, 4½, 5, 5, 5, 5, 6, and 6 inches.
Furnished in rolls containing 10, 20 and 40 rods. Weight per 100 rods, 835 lbs.
Price, per rod.....$0.35

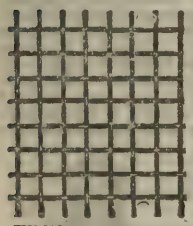
PEERLESS GALVANIZED BARBED WIRE

No. 24-A-16. This is the very best barbed wire manufactured, and is a great money saver. It is made of two strands. No. 14 gauge wire, twisted together and has two barbed points 3 inches apart. Wire is extra



heavily galvanized, and is put up in rolls containing 80 rods to the roll. Each roll weighs about 56 lbs. Unlike the heavier barbed wire it is sold by the reel and not by the weight.
Price, per reel.....$1.80

WIRE CLOTH FOR SCREENS



No. 24-A-48. Painted black wire cloth for window and door screens. This is the very best quality of wire cloth on the market. A double selvage is coated with a special wire cloth tape which does not crack or peel off. Put up in rolls containing 100 lineal feet. We will furnish any length required.

Width Inches	Price per Roll	Price per Running Ft.
24	$2.85	$0.03¼
26	3.10	.03½
28	3.35	.03¾
30	3.60	.04
32	3.80	.04¼
34	4.05	.04½
36	4.30	.04¾

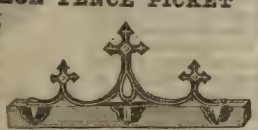
BRIGHT WIRE CLOTH

No. 24-A-49. Bright wire cloth for window screens, doors, etc. This cloth is made by an entirely new process and has a bright aluminum finish, and is more nearly rust proof than the black wire cloth. Put up in rolls containing 100 lineal feet.

Width Inches	Price per Roll	Price per Running Ft.
24	$4.40	$0.05
26	4.75	.05½
28	5.15	.05¾
30	5.25	.06¼
32	5.60	.06½
34	6.00	.07
36	6.30	.07¼

MALLEABLE IRON FENCE PICKET

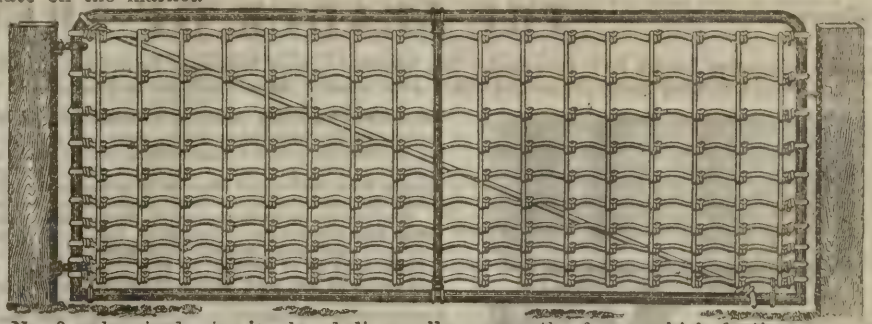
A neat decoration for tops of iron fences, cornices, porches, etc. Comes in sections about 12 inches long. Designed to be fastened with screws to top rail or wood strip.



No. 24-A-52. Price, each.....$0.08
Price, per 100 pieces..... 7.00

PREMIER FARM GATE

Frame is made of 1⅞ inches outside diameter steel tubing. Has 1⅛ inches upright center brace, which prevents the gate from spreading and makes it the most rigid and durable Farm Gate on the market.



No. 9 galvanized wire is placed diagonally across the fence, which further serves to stiffen and strengthen it. The frame is covered with the best mesh fence, all wires heavily galvanized to prevent rust and corrosion.
No. 24-A-44. 10 ft. Premier Farm Gate, height 54". Price.....$4.15
No. 24-A-45. 12 ft. Premier Farm Gate, height 54". Price..... 4.40

PERFECTION FARM GATE

Frame is made of 1¼-inch outside diameter steel tubing; 10-foot gate has one and the 12-foot gate has two ⅞-inch upright braces which prevent gate from spreading and make it extremely rigid.
No. 9 galvanized wire is placed diagonally across the frame to strengthen it. The frame is covered with a mesh fence and aside from the size of the steel tubing and upright braces, it is constructed in the same manner as our Premier Farm Gate.
No. 24-A-46. Ten-foot Perfection Farm Gate, height, 54 inches. Price.....$3.40
No. 24-A-47. Twelve-foot Perfection Farm Gate, height, 54 inches. Price..$3.90

BULL DOG WIRE GRIP

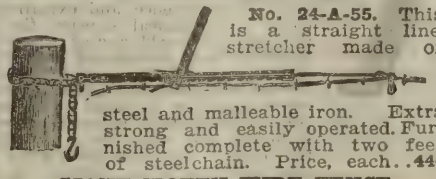
A very handy tool for tightening loose wire. Can be attached to a bar and strong leverage secured. Fitted with swivel.

No. 24-A-53. Price, each.....19c

STEEL FENCE RATCHETS

Reversible and can be used at posts or any intermediate point. By using these ratchets you can tighten up the wire and easily keep the fence from sagging.
No. 24-A-54. Price, each.$0.04
Price, per doz..... .40
Price, per 100..... 3.00

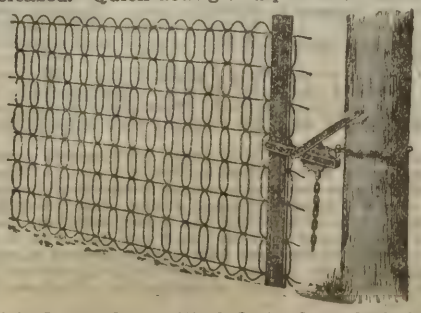
RATCHET STEEL WIRE STRETCHER WITH ROD



No. 24-A-55. This is a straight line stretcher made of steel and malleable iron. Extra strong and easily operated. Furnished complete with two feet of steel chain. Price, each..44c

GIANT WOVEN WIRE FENCE STRETCHER

The only self-locking fence stretcher manufactured. No ratchet or pawls to be released. Quick acting and powerful. Fur-



nished complete with 8 feet of steel chain, bolts and wooden clamps. Weight per set, 47 pounds.
No. 24-A-57. Price, per set.....$3.50

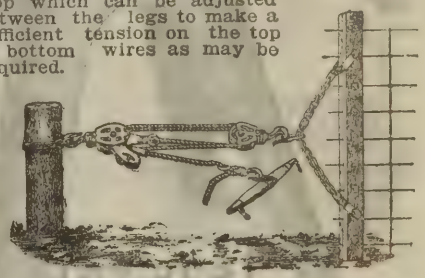
IMPROVED TACKLE BLOCK WIRE STRETCHER

Fitted with an automatic lock or clasp. Disengaged by a slight movement of the hand rope. Can also be used as a safety hoist, with which

any man can lift 500 pounds. Furnished complete with 16½ feet of ⅝-inch pure manila rope.
No. 24-A-56. Price, each.....75c

COMBINATION ADJUSTABLE WOVEN WIRE FENCE STRETCHER

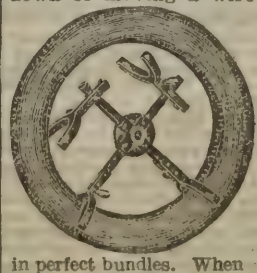
This is a combined fence stretcher and safety hoist. Furnished complete with 57 inch hardwood clamps and bolts, chain and stirrups, with heavy malleable adjustable loop which can be adjusted between the legs to make a sufficient tension on the top or bottom wires as may be required.



The Safety Hoist is made to be used with ¾-inch rope, with which one man can easily lift 600 pounds.
Weight of stretcher, clamps, chain, loop, swivel and safety hoist, 45 pounds.
We do not furnish post chain rope or single tree.
No. 24-A-58. Price.....$4.45

HANDY WIRE REEL

This reel can be used for winding up either barb or plain wire, or in taking down or moving a wire fence. It is made throughout of wrought iron and is very strong.



In operation it is rolled on the ground over the wire without much exertion on the part of the operator. It will roll up wire in a perfect coil without angles, and will hold from 150 to 200 lbs. After the wire has been rolled up the reel can be collapsed and the wire taken off in perfect bundles. When again putting up the wire a rod can be run through the hole in the center of the reel and the wire unwound the same as from a spool.
No. 24-A-59. Price.....$2.50

THE CHICAGO CREAM SEPARATOR

THE LEADER OF THEM ALL

Greatest Skimming Device Ever Invented. The Smallest Cream Separator Bowl in the world. It Can Never Get Out of Balance. Simplest and Most Common Sense Cream Separator ever made. Others will try to Imitate the "Chicago" Separator but Don't Be Deceived.

Try a "Chicago" for 30 days free, compare it with any other separator made, and if you are not satisfied it is the best separator made, if you are not satisfied that you are saving money in buying from us, if you are not satisfied with the separator for any reason, return it to us and we will return to you promptly any money that you may have sent us.

$28.75

THE PRICE IS RIGHT

TO OUR FRIENDS AND CUSTOMERS—READ THIS:

During the past few years we have had a great many inquiries from our friends and customers, asking whether we sold a Cream Separator and we have always been obliged to answer, no, we do not. We are now greatly pleased to announce that we have added the "CHICAGO" Cream Separator to our already long and varied line of merchandise, and are now ready to supply our customers, in need of a Cream Separator, with the best, latest improved and most wonderful Separator known.

The reason we have not sold a Separator sooner, is because we were unable to find a Cream Separator which we believed good enough to stake our reputation on. We wanted to secure a Cream Separator that we could most heartily recommend to our customers. Our idea of a first class machine was, **a Separator that had all of the good, strong and desirable features of up-to-date Separators and none of the bad, weak or questionable features.** Our experts have searched the country for years to find a Cream Separator of this kind. We have tried, tested and examined every known Cream Separator on the market to-day. We did not make these tests hurriedly, instead we have spent years doing so. Our experts have taken one Separator after another and tried them side by side and each and every one separately, we made note of every point of merit or advantage in every machine and after making these tests and comparisons, these facts were brought out clearly and distinctly. The "CHICAGO" is by far the **Leading Cream Separator to-day.** It is astonishing how far in advance of all others the "CHICAGO" Separator is.

HOW THE "CHICAGO" ORIGINATED—

The inventors and manufacturers of the "CHICAGO" Separator started out many years ago manufacturing special machinery, later a new department for repairing all kinds and makes of Cream Separators, was added. They soon had a large Separator repair business worked up, farmers sent in Separators of every make and description for repairing, and in this way they became thoroughly acquainted with the construction and principles of every Separator on the market. They heard the complaints of farmers on every kind of Separator, they also learned the features they praised, they found all of the weak points and strong points, in fact learned the good and bad features of every Separator made.

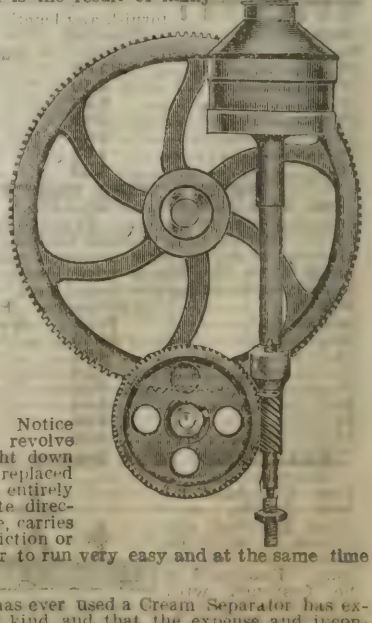
After gathering all of this information, they struck out with the aid of a corps of mechanical experts to build a Cream Separator of their own. Experience had taught them what was good and what was bad in a Cream Separator, they knew what was good and adopted it, they also knew what was bad and avoided it. When the Separator was completed, expert mechanics pronounced it a masterpiece. For the past few years, these machines have been sold in almost every state in the Union and in many parts of Canada and are recognized as the leading Separators wherever used.

THE MARVELOUS NEW COMPOUND DISC SKIMMING DEVICE—THE SMALLEST BOWL OF ANY SEPARATOR IN THE WORLD—

The Bowl is the principal part of any Cream Separator, as in it is done the Separating, the thoroughness of which largely determines the value of the Separator. The Farmer and Dairyman wants a Separator that will skim, and if possible he wants it to take the last drop of Cream from the milk. That is exactly what the "CHICAGO" Separator will do. There are of course other Separators that will skim fairly well under favorable conditions, but they must in every case provide a great deal of space by making a long, wide and top heavy Bowl and add almost innumerable Discs and contraptions of all kinds and descriptions and consequently have a Bowl which can not long remain in balance, if in fact they can be balanced at all, a Bowl that will cause the machine to run heavy, wear out Bearings, break Neck-Bearing Springs and be a source of constant trouble and expense. The tendency of all Separator improvements in recent years has been to reduce the size of the Bowl, some manufacturers have succeeded to reduce the size of their Bowl to a limited extent, but our "CHICAGO" Separator to-day has the smallest and most practical Bowl in the world.

THE BOWL of the "CHICAGO" Separator is absolutely the most wonderful invention the Separator world has ever known or heard of. It is less than half as large as most others, skims more than twice as much milk in the same time than most others and does it more thoroughly. These are not mere statements but actual facts, and we can prove it. No more long, top-heavy Bowls to get out of balance; no more large clumsy bowls to vibrate, buzz and wear out the bearings; it is a thing of the past since the "CHICAGO" appeared on the market. Just think of it—the largest size "CHICAGO" of 1,000 lbs. capacity per hour, is only four inches long. If we were to make our Bowl as large as most other makers of Cream Separators do, we could skim from 3 to 5 times as much milk in the same time and do it more thoroughly than most of them do.

The "CHICAGO" is able to skim milk cleaner, faster, easier and more of it with a smaller bowl, because of its wonderful and unique construction of the BOWL and SKIMMING DEVICE. Our bowl is the result of many years of experience and experimenting by a corps of mechanical experts, the Edisons of the Separator world, and as it now stands perfected, is many years in advance of any other. The Compound Discs used in our Skimming Device are wonderfully effective, and by them the currents are perfectly controlled from the time the whole milk enters the Bowl until the skim milk and cream leave it by their respective exits. The milk is divided into many thin sheets or layers, giving the centrifugal force chance to separate the particles of butter fat from the skim milk, three times as easily as if the milk were left in bulk while the contact of the moving particles of cream and milk, each striving to reach their respective level, impelled by centrifugal force, is reduced to a minimum; the currents are directed in such a way that the space is actually used twice and practically all of the cream is separated from the milk the moment it enters the bowl. It makes but little difference to our skimming device whether the milk is warm or cold. It is however understood by all practical dairymen that it is best to separate milk as soon after milking as possible, as it then is in its most natural state.



OUR LATEST IMPROVED GEARING SYSTEM—

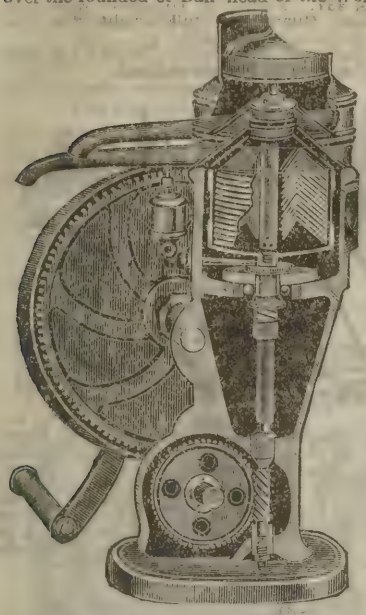
Our gears are all made of the best known material and are accurately and perfectly cut. All Gears are amply protected so that nothing can catch in same and all dust and dirt are kept out. There are only two points of meshing, or contact, in our Gearing. In most others there are three or four. That is one of the reasons why the "CHICAGO" runs so easy. The face of every Gear is wide, yet they are designed with extreme nicety and are wonderfully long lived and smooth running.

We call your particular attention to the way in which we apply the power with our Gears to revolve the Bowl. Notice the Worm Wheel and Worm Spindle. In other Separators the Worm Wheel bears down on the Worm Spindle to revolve the Bowl, consequently the whole pressure from the Crank and the entire weight of the Bowl are forcibly brought down upon the Lower Bearing Pin or Ball causing a great deal of friction, and wear, so that the Pin or Ball must be replaced very frequently and the machine runs very hard. The system of applying the Power with our Gears has been entirely changed. Instead of the Worm Wheel running forward and bearing down on the Pin or Ball, it turns in the opposite direction and raises up on the Worm Spindle, doing away with all the pressure from the Crank, and it, at the same time, carries almost the entire weight of the Bowl, so that practically all of the weight is suspended in the air and there is no friction or wear on the Lower Bearing and Pin. We have reasons to be justly proud of this system. It causes the Separator to run very easy and at the same time aids greatly to make the Separator wonderfully long lived.

THE "CHICAGO" HAS A SELF BALACING BOWL—

This is one of the greatest features ever heard of in Cream Separator construction. Most every one who has ever used a Cream Separator has experienced a Bowl going out of balance and knows that the Bearings are quickly worn out by a Bowl of this kind and that the expense and inconvenience he is put to is no small matter. Nothing of that kind can ever happen with a CHICAGO Separator; the reason is the unique construction of our

Bowl. The entire Bowl is made out of one solid piece, the shell and bottom is made of the highest grade tough, forged steel, the Spindle is ample in toughness and is made of High Carbon Tool Steel welded to the Bowl by Electricity. The Bowl is very short, from two to four inches long, and the High Carbon Tool Steel Stem or Spindle is correspondingly long so that it has perfect control of the Bowl at all times. The Gearing can not interfere with the running or balance of the Bowl as we use the two piece Worm Spindle and the Bowl Spindle is made with a rounded hole in the lower end which sets over the rounded or Ball head of the Worm Spindle and is at all times free to center up and maintain its balance like a top.



Another feature with our Bowl that must not be overlooked is the way our Bowl Head is fastened to the Bowl. There are no threads to wear out and turn past the Balance mark. Our Bowl Head is set on the Bowl and drawn down by a center Rod. If our Bowl was used for 50 years the Balance weights would never be shifted as the Bowl Head must go on the same way every time. You can absolutely rely on the "CHICAGO" Separator Bowl being in balance at all times.

The self balancing feature in our machine alone will save the users of Cream Separators in this country a great deal of money and annoyance.

THE FRAME—Look at the picture of the "CHICAGO", note the extra strong frame made of finest gray iron, cast in one solid piece. It is not simply a lump of cast iron, but neatly designed, well proportioned, with the strength placed just where it is needed. The base is cast in two pieces, is detachable and bolted to the main frame. It has no flat base under which oil and dirt can gather, but stands on four legs, which are thoroughly braced above the bottom, which permits one to wash and sweep around and under it easily and so keep the surroundings sweet and sanitary. There are only three pieces to the entire main frame, no swaying or weaving with our construction, but instead it is perfectly rigid. **The frame is beautifully finished in dark blue enamel and decorated artistically with gold and silver stripings.**

NOTICE. THE SUPPLY CAN—It is low down and made from a single piece of high grade steel, heavily tinned and retinned. There are no seams or soldered joints, no corners, no place for dirt to catch, perfectly sanitary, made of heavy material and should wear forever.

LOOK AT THE X-RAY PICTURE OF OUR MACHINE—Which shows every part of the Separator as it would look if the Separator were cut in two. Examine it carefully; the more you know about our Cream Separator the more you will like it.

Notice that the milk flows from the Supply tank directly into the Feed Cup, where it is regulated by a float which keeps the Cup from over-flowing and at the same time makes the milk flow steadily into the Bowl. The milk drops from the Feed Cup directly into the bottom of the Bowl, where it is first cleaned and purified, and then separated by centrifugal force with our most wonderful skimming device, the most perfect the world has ever known.

The skim milk, perfectly separated without a drop of Cream left in it, passes out through a crease in the head of the Bowl and into the skim milk pan, then through the milk spout to the can or pail provided. Please note that none of the skim milk is left in the Bowl pot or frame of the Separator, therefore nothing but the Bowl and tinware need ever be washed.

The Cream comes out of a groove in the top of the bowl head and by simply turning a small screw the cream can be set in a moment to any desired density, either thick or thin.

EASY RUNNING—We claim and are prepared to prove, that the "CHICAGO" Separator is one of the easiest running, first class Separators on the market to-day, there is no Separator made that will run any easier. This result is brought about by our perfect oiling system, our small and perfectly balanced bowl, our superior flexible Neck-Bearing, perfectly cut gears, our genuine bronze bearing, low speed, our wonderful system of applying the Power to revolve the Bowl, and because we have reduced all friction to a minimum. A boy can operate the "CHICAGO" with ease.

Our largest size "CHICAGO" Separator of 1,000 lbs. capacity does not run any heavier nor as heavy as most other Separators of 500 lbs. capacity. You can absolutely depend upon this.

THE BEARINGS—The bearings are all made of Phospher Bronze, which is the best material known for the purpose. Its wearing qualities are wonderful and it is almost frictionless. We use the Phospher Bronze wherever there is a bearing, as it is necessary to make the best machine. Many other makers of Cream Separators simply use cast iron bushings for the slow bearings.

WASHING THE DISCS—This illustration shows how the discs are washed. The number of discs used in our Separator is less than half that of most other makes of Cream Separators, and the washing arrangement, as shown in the cut, is absolutely the best. With our arrangement there is no mixing of Discs, when the core is removed from the bowl, the entire body of discs is slipped onto the transfer at the same time, then shaken apart as shown in the illustration, and all rinsed in water at the same time, then hung to dry. It is not necessary to assemble these discs one by one. Instead they are all put on the core at the same time, as they never get out of line. We challenge all other makers of Cream Separators to produce as fine a washing system as is found in the "CHICAGO."

OUR WONDERFUL NECK-BEARING—The neck-bearing in a Cream Separator is one of the all-important parts, and few, if any, of the Separators on the market to-day have a neck-bearing that comes anywhere near answering the purpose intended. As can be seen in the X-Ray picture, the neck-bearing in our machine, which is made of Phosphor Bronze, is supported by a thick rubber ring which is adjustable and allows the Bowl its necessary vibration. This heavy rubber ring is supported by a heavy one-piece coil-spring and adjustable lock-nut. This is the most perfect flexible neck-bearing yet devised. Always in the center, always lines up, no wobbling of the Bowl, no breaking of Springs. Think of it a Cream Separator with no neck-bearing springs to break or get out of order or line, a bearing that can be loosened or tightened in a few seconds' time and that without removing any part or parts. Anyone who has ever used a Cream Separator knows what is gained by this arrangement. We have reasons to be justly proud of this invention.

THE "CHICAGO" MADE IN A WIDE RANGE OF SIZES—A machine suitable in size to every dairy in the country. It does not matter whether you have one or 100 Cows, we have a size that will suit your needs. The "CHICAGO" is the only Separator that can be made in strictly hand sizes up to 1,000 lbs. capacity per hour; others have tried it but never got a machine any larger than 600 lbs. capacity per hour that came anywhere near being a success. Some tried to make a 700 lb. size, but had to discontinue because they were a failure. That is because they do not have an efficient skimming device and are of old style, back number kind. The Bowl in our 1000 lb. capacity Separator is not as large and does not run as heavy as most other makes of Separators of 400 to 500 lbs. capacity. If we were to use as large a Bowl in our "CHICAGO" as some manufacturers do in their 600 lb. capacity we could skim from three to four times as much milk in the same time and in the same size Bowl, and would skim it more thoroughly. These are not mere statements, but actual facts and we can prove it.

When we tell you a certain machine is 700 to 750 lb. size, that means that you will get a Separator that will actually skim from 700 to 750 lbs. of milk per hour. Many other makes of Separators for which a certain capacity is claimed, fall short. The regular price figures which we give you are the actual prices many of the other manufacturers charge you for the same size machine, that is not nearly as good as our "CHICAGO". Just figure what we save you.

ABOUT THE PRICE—We have placed the price as low as is consistent with the very best workmanship and material. There are, no doubt, some lower priced machines on the market, but they fall so short of doing what they are promised to do that they would be really high priced at much less than the price they ask for them. These cheaper machines are made with the idea that you will find any Centrifugal Separator better than none at all, and they will show an increase over the old setting or gravity system and therefore they believe you will keep them anyway.

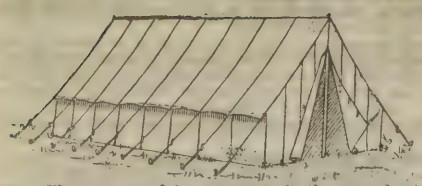
OUR PRICES—The lowest ever made, on the highest grade separator ever produced—We can furnish the "CHICAGO" in the following sizes and at the following prices:

SIZE No. 1 CHICAGO CREAM SEPARATOR Capacity 250-300 lbs. per hour. Our wholesale price.....**$28.75** Retail dealers would ask you $60.00 for this Separator.	**SIZE No. 3** CHICAGO CREAM SEPARATOR Capacity 600-650 lbs. per hour. Our wholesale price.....**$43.65** Retail dealers would ask you $90.00 for this Separator.	**SIZE No. 5** CHICAGO CREAM SEPARATOR Capacity 800-850 lbs. per hour. Our wholesale price.....**$59.95** Retail dealers would ask you $115.00 for this Separator.
SIZE No. 2 CHICAGO CREAM SEPARATOR Capacity 350-400 lbs. per hour. Our wholesale price.....**$34.95** Retail dealers would ask you $75.00 for this Separator.	**SIZE No. 4** CHICAGO CREAM SEPARATOR Capacity 700-750 lbs. per hour. Our wholesale price.....**$53.75** Retail dealers would ask you $100.00 for this Separator.	**SIZE No. 6** CHICAGO CREAM SEPARATOR Capacity 950-1,000 lbs. per hour. Our wholesale price.....**$66.45** Retail dealers would ask you $125.00 for this Separator.

OUR GUARANTEE—We guarantee the CHICAGO to be built of the best material possible in Cream Separator construction. We guarantee it to be absolutely free from flaws of any kind at the time of delivery. Should any flaws be found, we agree to replace the parts in which the flaws are found free of charge to you for twenty years.

WHAT SIZE MACHINE TO BUY—We want to advise every one of our customers to buy one of the larger sizes of our Separator. Always buy a machine a little larger than you now need, as you may increase your herd and then you will need the larger size. Another thing we want to impress firmly is this: Our large size machines are not big and clumsy—they are strictly hand machines. The 1,000 lb. machine is very little larger than our 250 lb. machine and is handled just as easily in every respect. The largest Bowl is only four inches long and therefore runs very little heavier than the small machine. With one of the large capacity machines you can separate your milk in less than one-fourth the time required for separating with the small size machine. Therefore there would be only one-fourth the wear on the large machine that there would be on the small one. Then, too, you are at all times prepared should you enlarge or increase your herd. The difference in price is not great and we believe it will surely pay anybody to get the larger sizes instead of the smaller ones. It will pay both in time and wear of machine.

TENTS AND CANVAS COVERS



In offering our line of tents we guarantee they are the best it is possible to produce.

They are made of full weight duck, full size, and are extra well stitched with double twisted thread. In buying a tent from us you are assured of the fact that you do not get a tent of lighter weight duck than specified, nor will it be any shorter in length or breadth. You will also note that in describing the tent we specify the height of wall, height of center pole, in fact, give full measurements.

The rope used in our tents is the very best grade of manila. Every seam is roped. They are reinforced with double thickness of canvas at both ends of the ridge which are supported by the pole. This prevents tearing. Every seam is double stitched and storm lap is full size and heavily reinforced. Tents in sizes up to 12x12 ft. can be shipped immediately. The larger sizes are made to order, and ordinarily they can be made up and shipped within 3 to 5 days. However, in the season when tents are in great demand during June and July, on sizes that are made to order shipment can be made within 5 to 8 days. All tents and covers, as well as other similar merchandise offered by us, are guaranteed to be exactly as represented.

"PREMIER" WALL TENTS.

No. 4-A-435. The prices which we quote on these do not include Flies. A tent fly is an extra removable roof to a tent and affords a greater protection from sun and rain. We will furnish the flies at one-half the price of the tent.

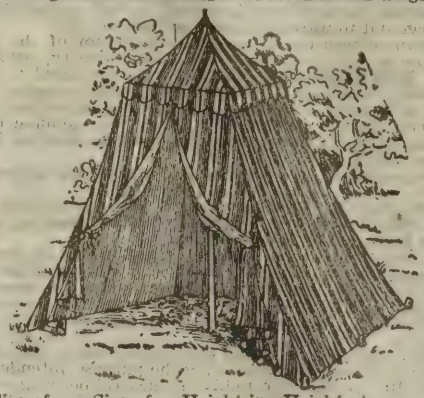
Where the poles are not required, deduct 5% from the price of the 8 oz. tent in the size required.

Where a higher wall than is regularly furnished with a tent is required, **add 5% to the cost of the tent for each additional six inches.** Prices complete including poles, pegs, guys, ropes, etc., ready to set up.

Length and Breadth	Height of Wall Feet	Height of Pole Feet	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
7x7	3	7	$4.80	$5.62	$6.82
7x9	3	7	5.70	6.63	7.90
9x9	3	7½	6.60	7.80	9.65
9½x12	3	7½	7.80	9.00	11.00
9½x14	3	7½	9.00	10.25	12.45
12x12	3½	8	9.35	10.80	13.15
12x14	3½	8	10.60	12.50	15.00
12x16	3½	8	12.00	13.75	16.75
12x18	3½	8	12.85	15.50	18.50
14x14	4	9	13.00	15.25	18.00
14x16	4	9	13.80	16.50	19.65
14x18	4	9	15.60	18.00	21.50
14x20	4	9	16.00	19.00	22.00
14x24	4	9	19.25	22.00	25.50
16x16	5	11	16.85	19.80	23.94
16x18	5	11	18.60	22.00	25.45
16x20	5	11	20.50	24.00	28.50
16x24	5	11	23.40	27.00	31.85
16x30	5	11	27.25	32.50	37.80
18x20	5	11	22.90	27.00	31.45
18x24	5	11	25.00	29.75	34.35
18x30	5	11	28.60	34.00	39.85
18x35	5	11	33.00	40.00	45.90

PALMETTO LAWN TENTS.

No. 4-A-436. Are very desirable for children, lawn, and croquet parties. They are made of 8 oz. striped material and are set up with a light iron frame which is sewed into the tent around the top. We guarantee our tents to be full size and weight.

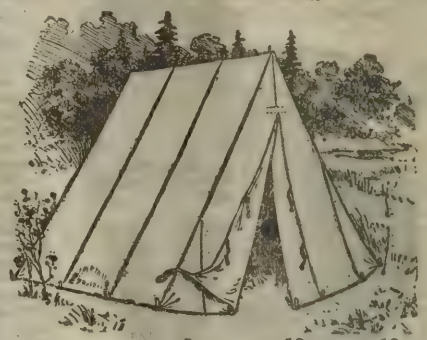


Size of Base	Size of Top	Height in Center	Height at Side	Price
7'x7'	2' 4"	7' 6"	6'	$4.50
8'x8'	2' 4"	8'	6' 6"	5.50
10'x10'	3' 6"	9'	7' 6"	7.25

"A" OR WEDGE TENTS.

No. 4-A-437. Furnished complete with poles and stakes. Guaranteed full weight and size. Nothing better manufactured.

Where poles are not required, deduct 5% from price of 8 oz. tent in the size ordered.



Length and Breadth	Height of Pole Feet	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
7x7	7	$4.20	$5.00	$5.85
7x9	7	5.00	5.95	6.98
9x9	7	5.65	6.65	7.85
9½x12	7½	6.75	8.10	9.48
12x14	9	10.00	11.65	15.00

MINERS' TENTS.

No. 4-A-438. Can be used as a Lawn Tent. Complete with center pole.

Size of Base	Height	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
7x7	7	$3.05	$3.65	$4.25
9x9	8	4.37	5.20	6.10
12x12	9	6.67	7.70	11.66

HIP ROOF REFRESHMENT TENT.

No. 4-A-439. These tents are made in the best possible manner, thoroughly roped where strength is required and are otherwise manufactured in the same high grade manner as our Premier Wall Tents. They are furnished complete with poles, stakes, guy ropes, etc. Are heavily reinforced at the corners, and also at either end of the ridge. They are not carried in stock, but are made to order only. Shipment can be made within one week.

Length and Breadth	Height of Wall	Height of Pole	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
9x14	6	10	$13.45	$15.50	$18.00
9x16½	6	10	15.00	17.00	19.75
9x19	6	10	16.80	19.25	22.25
12x19	6	11	18.50	21.00	24.65
12x21½	6	11	22.20	25.20	29.40
14x21½	6	12	22.75	26.50	30.25
14x23½	6	12	25.75	30.75	35.25

CANVAS COVERS OR PAULINS.

No. 4-A-440. For covering Harvesters, Binders, Threshing Machines, Hay Stacks and all kinds of Machinery.

Each seam is sewed with double twisted thread. They are guaranteed to be full size and made of full weight duck. Have eyelets around sides and are furnished with short ropes.

Size Feet	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
10x16	$2.95	$3.65	$4.25
10x18	3.25	4.00	4.75
12x14	3.20	3.95	4.65
12x16	3.75	4.50	5.50
12x18	4.10	5.00	6.00
12x20	4.50	5.50	6.50
14x16	4.40	5.40	6.40
14x18	5.00	6.00	7.00
14x20	5.45	6.50	7.90
14x24	6.50	8.00	9.35
16x20	6.00	7.35	8.50
16x24	7.50	9.00	10.50
18x20	7.00	8.50	10.00
18x24	8.00	10.00	12.00
20x24	9.00	11.00	13.00
20x36	13.00	16.25	19.50
24x30	13.00	16.00	19.00
24x40	17.00	21.00	25.00
24x50	13.30	26.50	31.85

Premier Church and School Bells

These bells are made of a special composition of metal and in the manufacture special attention is given so the proper proportions of the different metals are used in order to gave a mellow sound and at the same time give a penetrating, powerful tone. A rigid inspection of each and every part of our bells is made before shipment, and any bell ordered from us may be returned at our expense if not entirely satisfactory.

The Premier bell is artistic in construction, compostion of metals and the diameter being in harmony with the weight of the bell, and overcomes the liability of its breaking. In making up compositions for our bells the tone best adapted for the purpose for which the bell is intended is carefully taken into consideration, the sound varying from the sharp piercing bell suitable for farm and school, to the voluminous, deep ringing of the church bell.

We guarantee every bell that leaves our factory to be perfect in tone, material and workmanship. All bells are guaranteed against breakage with ordinary use within five years from date of purchase.

Should a bell break within the time specified, we bind ourselves to furnish a new one free of charge on delivery of the broken casting at our factory. In case of breakage after the time our warranty has expired we will allow for the broken bell, without mountings, one-half its price in exchange for a new one.

Our bells are finished with a rich copper preparation, which not only adds very much to their appearance but protects them from the weather. The mountings are finished in black enamel. In ordering, remember the larger the bell the deeper and more mellow the tone it will produce. A deep mellow tone cannot be obtained in a small bell.

Premier Church Bells.

No. 4-A-1

These bells are made of special composition metal and will produce a full, rich, mellow tone. There is no church that can afford to be without a bell, especially at the very low prices which we are quoting. You are protected in the purchase of these bells by our five year guarantee, and further than this, should you buy one of these bells from us and the tone is not satisfactory it can be returned to us.

In purchasing a bell it is better to select a large one, as the larger the bell, the more satisfactory tone it will produce and the greater the distance it can be heard. Bells in sizes 44 inches and larger are fitted with special roller bearings, making it possible to ring these larger bells with perfect ease.

All church bells are furnished complete with tolling hammers, equipped with a perfected spring to overcome the rebound of the clapper. These bells are shipped from our factory in Southern Ohio.

Diameter Inches.	Weight lbs. bell and Mountings complete.	Price Each.	Diameter Inches.	Weight lbs. bell and Mountings complete.	Price Each.
24	260	$10.75	36	950	$38.25
26	360	14.60	38	1010	46.25
28	460	19.75	40	1300	52.75
30	570	24.00	44	1790	79.25
32	645	25.50	48	2280	99.00
34	760	30.00			

Prompt shipments and careful packing, thereby insuring a safe delivery, are some of the methods that have placed us in the foremost ranks of the great commercial institutions of the age.

School Bells.

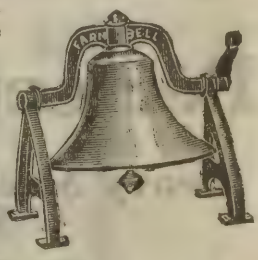
No. 4-A-2. Suitable for Schools, Colleges, Court House and Other Public Buildings.

No. 4-A-2

We are offering exceptional values in the line of school house bells. Every bell is guaranteed to give perfect satisfaction. The mountings of these bells have no unnecessary parts to get out of order, once hung, needing no further attention with the exception of oiling occasionally. They are constructed in such a manner so as to work with perfect ease. Every bell is provided with adjustable springs, permitting the clapper to strike with sufficient force and then holding it away so that the vibration is uninterrupted. These bells are shipped from factory in Southern Ohio.

Diameter Inches.	Weight lbs. bell and Mountings complete.	Price Each.	Diameter Inches.	Weight lbs. bell and Mountings complete.	Price Each.
20	165	$ 6.00	34	765	$28.25
22	205	7.50	36	950	36.00
24	250	9.50	38	1010	43.95
26	350	13.50	40	1300	50.50
28	450	18.40	44	1790	77.00
30	570	22.10	48	2280	97.00
32	640	23.60			

Farm Bells.



These bells are made of a special mixture which insures a sweet, clear tone and we guarantee that they are the clearest ringing farm bells manufactured.

We offer these bells in four sizes. Nos. 1, 2, and 3 are designed to be mounted on a post. Size No. 4 requires a platform.

No. 4-A-3

Size No.	1	2	3	4
Diameter Inches	15	17	19	21
Wt. complete lbs.	40	50	75	100
Price each	$1.05	$1.47	$2.00	$2.65

Whitewash and Painting Machines.

Painting and whitewashing by machinery reduces the cost of painting and whitewashing to a minimum. We offer our customers the finest, cheapest and best whitewashing and painting machine ever placed on the market.

Construction: The body is made of No. 24 gauge, galvanized steel, and is fitted with a first-class ball valve, brass cylinder pump which will produce a high pressure. It is fitted with an agitator which works at every stroke of the pump and keeps the solution thoroughly agitated. The top is easily removed when you wish to clean the machine. It is guaranteed to be the most practical machine offered and entirely satisfactory. Furnished complete with solution strainer

No. 4-A-1540. Size No. 6—10 gallon, galvanized iron Whitewash and Painting Machine complete with 10 foot of high-grade ½-inch hose, one nozzle and one 8-foot extension rod, price $12.00

No. 4-A-1541. Size No. 7—18 gallon, galvanized iron Whitewash and Painting Machine complete with 10 foot of high-grade ½-inch hose, one nozzle and one 8 foot extension rod, price $15.00

No. 4-A-1542. Size No. 106—Similar in construction to the trunks above described and are complete with 4 foot of ½-inch hose, 4 foot iron extension rod, strainer and brass body pump; 6 gallon, galvanized reservoir, price $8.00

No. 4-A-1543. Size No. 106—All brass reservoir, complete with 4 foot of hose, 4 foot extension rod, strainer and brass cylinder pump, price $3.00

No. 4-A-1544. Extra hose, per foot ..... .08

No. 4-A-1545. Single nozzle, price ..... .75

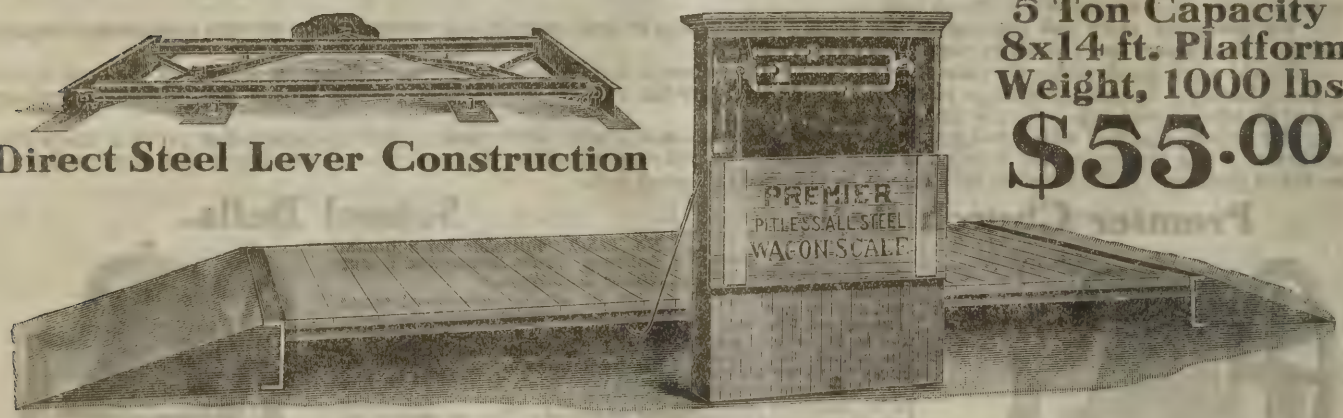
No. 4-A-1546. Double nozzle, which we recommend for quick work, price $1.60

No. 4-A-1547. Extra washers, per set ..... .80

Premier Pitless All Steel Wagon Scale

Direct Steel Lever Construction

5 Ton Capacity
8x14 ft. Platform
Weight, 1000 lbs.
$55.00



This is an all steel Pitless Wagon Scale which is strictly high grade in every particular. It has a direct steel lever construction, an improvement not found in any other type of Pitless Wagon Scales.

This scale is provided with combination three-bar solid brass beam carefully graduated to the full capacity of scale, thus requiring no loose weights to get loose or out of seal. Beam and poises are all finely polished and marks are large and distinct. Beam and lever pivots throughout the scale are the best tool steel, drawn to a knife edge and carefully tempered.

The ends of the scale frame are made from a heavy steel channel beam connected by tubular steel cross pieces which support steel levers in frame of scale. Scale levers are made from a single piece of heavy T shaped rolled steel and held in scale frame by best tempered tool steel pivots.

Heavy steel I-beams support platform and are held in place by hardened bearing feet supported on levers by best grade tempered tool steel pivots.

The beam box is made of one inch selected tongued and grooved lumber, well constructed and nicely painted. Each beam box is provided with heavy wrought hinges and flat key lock.

This scale is the best and highest grade Pitless Wagon Scale made and is suitable for farms or commercial use where scale is subjected to hard usage. We furnish this scale complete with beam box, which is carefully crated and boxed for shipment, with full and plainly printed instructions for setting up and installing. Purchaser being required to furnish only platform planks.

We guarantee this scale to be sealed to U. S. standard weights and to weigh accurately. We further bind ourselves to replace any part that may become broken through defective material or workmanship without cost to the purchaser. Should scale not be in every way as represented, it may be returned any time within one year.

Shipped direct from factory in Southern Michigan.

No. 4-A-562. Capacity, 5 tons. Size of platform, 8x14 feet. Weight, 1,000 pounds. Price.....**$55.00**

Perfection 5-Ton Pitless Scales

Heavy Steel I Beam Platform Stringers

$39.00

Double Brass Beams, Fitted with Brass Sliding Poises

Our new five ton Perfection Pitless Wagon Scale with solid double brass beam is an accurate and durable scale, suitable for all ordinary uses. The scale is provided with full capacity double brass beam fitted with brass sliding poises. The levers are made from "T" shaped rolled steel and are supported in frame of scale by tubular steel cross pieces, which hold wood end sills in place.

The platform stringer is made from a heavy steel I-beam and supported on levers by carefully chilled bearing feet.

The beam and lever points throughout the scale are heavy tool steel ground to a knife edge and carefully hardened, thus insuring sensitiveness, accuracy and durability to all parts of the scale where strain is greatest.

The beam box is of good material, well painted and provided with lock and key.

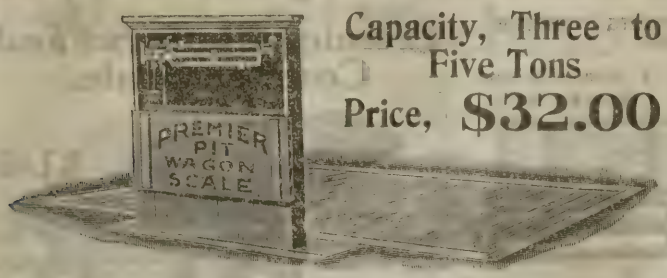
We furnish this scale with all brass and iron parts, including beam box, complete, carefully crated and boxed for shipment, with full and plain printed instructions for setting up and installing. The purchaser is required only to furnish the platform planks, two wood end sills, 3 inches thick, 12 inches wide and 6 feet long and one platform stringer 6 inches thick, 8 inches wide and 14 feet long.

The printed directions show and describe how all wood parts are cut and how foundations should be constructed.

Our Perfection Steel Pitless Scale is guaranteed to be sealed to U. S. Standard weights and to weigh accurately. Shipped on cars, factory in Southern Michigan.

No. 4-A-561. Capacity 5 tons, Size of platform 8x14 feet. Shipping weight, 675 pounds. Price.....**$39.00**

PREMIER PIT WAGON SCALES



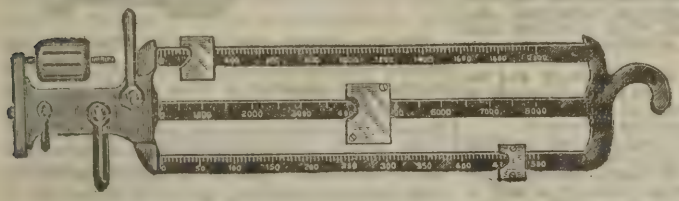
Capacity, Three to Five Tons

Price, $32.00

TWO BAR SOLID BRASS BEAMS.

The upper bar is graduated to 1,000 pounds by 5 pound marks, and the lower bar to 9,000 pounds by 500 pound marks.

The beam pivots are the finest tempered tool steel provided with hardened friction steels that prevent all binding and work on the beam and beam loops.



Levers are of T shaped steel and the long lever is trussed, as this lever has double the strain of the short lever. Sealed to U. S. standard weights. Carefully crated and boxed for shipment, complete with printed directions for setting up and installing.

We guarantee that this scale will weigh accurately and will replace any part that may become broken through defective material or workmanship without cost to the purchaser.

Shipped direct from factory in southern Michigan.

No. 4-A-563. Capacity, 3 tons. Size of platform, 8x14 feet. Equipped with double brass beam. Shipping weight, 550 lbs. Price..... **$32.00**

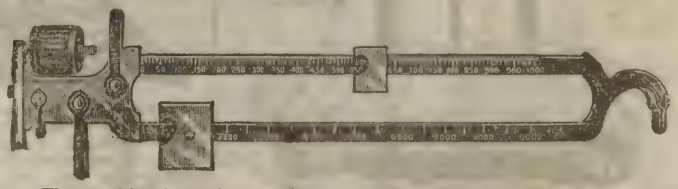
No. 4-A-564. Capacity, 4 tons. Size of platform, 8x14 feet. Equipped with double brass beam. Shipping weight, 575 lbs. Price..... **$35.00**

Guaranteed for ten years. This is a strictly high grade weighing machine in every particular. The long levers are trussed and the bearings are of tool steel carefully tempered.

We furnish the Premier Pit Wagon Scale with double or triple full capacity combination beams. Size of platform is 8x14 feet. Beam box is made of selected one-inch tongued grooved lumber painted with two coats of best lead paint with 1½-inch moulded top.

In offering this scale we have not attempted to compete with the lower priced scales in the market. We are offering a scale constructed in the best possible manner, all parts carefully built and one that will weigh accurately at all times. A scale that is in every sense suitable for commercial as well as farm purposes.

The beams are solid brass finely milled and polished with brass front sliding poises. It is graduated to full capacity of scale and there are no loose weights to get loose or out of seal.



The combination 3 bar solid brass beam is carefully graduated to full capacity, of scale, thus requiring no loose weights. The upper bar of the combination 3 bar solid brass beam is graduated by 10 pound marks to 2,000 pounds capacity and has brass faced sliding poise provided with set screw so that it can be fastened at any point when used for tare poises or otherwise.

The lower bar is graduated to 500 pounds by 2½ pound marks and has brass sliding poise. The middle bar is graduated to balance the capacity of scale by 500 pound notches and is provided with brass faced sliding poise fitted with steel pin which drops in notches. This poise is sealed on each notch making any variation in weight impossible.

Beams and poises are all finely polished and marks are large and distinct.

No. 4-A-565. Capacity, 5 tons. Size of platform, 8x14 feet. Equipped with double brass beam. Shipping weight, 590 lbs. Price..... **$40.00**

No. 4-A-566. Capacity, 3 tons. Size of platform, 8x14 feet. Equipped with 3 bar combination brass beam. Shipping weight, 565 lbs. Price..... **$36.00**

No. 4-A-567. Capacity, 4 tons. Size of platform, 8x14 feet. Equipped with 3 bar combination brass beam. Shipping weight, 590 lbs. Price..... **$39.00**

No. 4-A-568. Capacity, 5 tons. Size of platform, 8x14 feet. Equipped with 3 bar combination brass beam. Shipping weight, 610 lbs. Price..... **$44.00**

ACME SINGLE BEAM PLATFORM SCALE $7.00

Acme portable platform scale shown in the accompanying illustration is intended for those who wish a good scale for general purposes at a medium price.

Each scale is sealed to U. S. standard weights and guaranteed to weigh accurately. The material used throughout this scale is of the very best. The castings are made of high grade gray iron and are extra heavy, finished in black Japan. Pillar and pillar caps are made of kiln dried selected hardwood and finished with two coats of royal blue paint, nicely striped and varnished.

The lever pivots are made of high grade tool steel drawn to a knife edge, carefully tempered, causing the scale to act quick and sensitive.

The beam and sliding poise are of solid brass, both being milled and polished. Sufficient loose weights are furnished with each scale to balance it up to its capacity.

All scales are carefully packed for shipment with complete instructions for setting up.

Guaranteed to weigh accurately

	Capacity Lbs.	Size of Platform	Shipping Weight	Price Each
No. 4-A-540.	600	16½x24	150	$ 7.50
	800	17 x24½	160	8 [illegible]
	1000	17½x25	170	9.00
	1200	18 x26	210	10.00
	1500	20 x28	250	12.50
	2000	25 x33	365	16.50
	2500	25 x34	375	17.75

Premier Double Beam Platform Scale $10.00

Most Accurate and Durable Scale on the Market.

Our Premier portable double beam platform scales are the most accurate, sensitive and durable scales on the market, and the fact that they have a double beam enables the user to equalize the weight of any scoop, box, rack or crate, thus securing net weights of any thing that is being weighed or any receptacle that is being used on the platform. The main platform and levers are made of smooth gray iron, extra heavy and of ample weight and strength, all iron parts being finished in black Japan. The pillar and pillar caps are of the best hardwood painted with two coats of royal blue paint and nicely striped. Pivots throughout the scale are of the best tool steel drawn to a knife edge and correctly tempered. The levers are supported in hardened, flexible bearing loops pivotly supported in base frame of scale. The platform carrying the load is supported on levers by hardened, flexible bearings, thus insuring durability to that part of the scale where the work is greatest.

The double beams are of solid brass. Brass sliding poises are highly polished and finished. Furnished complete with loose weight sufficient to balance the scale up to its capacity.

Each scale is sealed to U. S. standard weights, carefully boxed for shipment with printed instructions for setting up.

Capacity	Size of Platform	Shipping Weight	Price
No. 4-A-541.—600	16 x24	160	**$10.00**
No. 4-A-542.— 800	17 x24½	170	**10.85**
No. 4-A-543.—1000	17½x25	175	**11.35**
No. 4-A-544.—1200	18 x26	245	**13.75**
No. 4-A-545.—1500	20 x28	275	**15.00**
No. 4-A-546.—2000	25 x33	370	**18.50**
No. 4-A-547.—2500	25 x34	375	**20.00**

The lower bar has a capacity of 2,500 pounds and is graduated in 100 pound marks.

Warehouse, Counter and Family Scales

Dormant Warehouse Scales.

Capacity, 2500 lbs.

$45.00

Strongest Constructed Warehouse Scale on the Market.

This scale is used in warehouses, factories, depots, etc., for weighing trucks or heavy articles. The platform is flush with the floor. The levers are placed below the floor line. A truck can be run directly on the scale without the use of an incline. The size of platform is 3x5 feet and has a weighing capacity of 2,500 lbs.

The lever construction is very strong and durable. The levers are of T steel supported in scale on tubular steel cross braces. Steel I beams support the platform, thus insuring strength and durability where needed. The illustration shows the floor cut away, showing the internal construction. Scale is made with full capacity combination brass beam fitted with brass sliding poise. The upper bar has a capacity of 150 pounds graduated in one pound marks and is also provided with a tare poise.

No. 4-A-560. Dormant Warehouse Scales, 2,500 pounds capacity. Price.....**$45.00**

72c, 24-lb. Family Slanting Dial Scale.

This scale is of steel construction throughout, enamel and ornamented in aluminum. Weighs up to 24 pounds by ounces.

Five inch white enamel dial with ovaled fancy gilt frame. Dial slants at an angle of 45 degrees. The figures of the dial can be seen at a glance without stooping. Each scale guaranteed to weigh accurately and packed in separate box. Weight, five pounds.

No. 4-A-554. Without tin scoop. Price....**$0.72**

No. 4-A-555. Tin scoop for the above scale. Price..... .12

85c, 24-lb. Spring Counter Scale.

Vertical dial, 24 pounds capacity. This is a strictly highgrade scale guaranteed to weigh accurately up to its full capacity, 24 pounds by ounces

The dial is five inches diameter, white enameled. The springs are made of the highest grade tempered spring steel. These scales are equipped with a tension screw so they can be evenly balanced. The scale is steel construction throughout, finely finished and ornamented.

No. 4-A-556. Without scoop. Price.....**$0.85**
With tin scoop. Price..... .97

MILBURN'S COMPUTING COUNTER SCALES.

A Wonderful and Accurate Scale.

$17.50

We purchased from the manufacturers their entire stock of the celebrated and perfected high grade Milburn Patented Computing Counter Scale. It represents the acme of perfection. Absolutely the very best and most complete scale of its kind on the market, strictly perfect in every way.

We have 140 of these scales in stock and we would advise that you at once take advantage of our offer. The regular price of these scales was $40.00 until they came into our possession.

This Scale will positively pay for itself in sixty days. There are no springs to get out of adjustment, and it is fitted with agate bearings, and will **weigh and compute** as accurately as **any** of the high-priced, computing scales on the market. Computes fractions of ounces—no figuring required, as the chart shows exactly the amount of purchase.

These Scales are handsomely enameled, and fitted with heavy brass scoops.

To arrive at the correct amount of purchase, slide the poise, which is attached to the price chart, to the number of ounces of merchandise to be purchased. The figure on the chart will show the amount of the purchase in cents.

For Example:—If your customer requires ¼ of a pound of an article, selling at 20 cents per pound, you can set the price indicator at the 4 ounce point on the chart, then place in the scoop merchandise until it balances. The figures on the chart will show that the amount of the purchase is 5 cents. The chart is divided into two sections. The first section to the left weighs and computes up to one pound from 5 to 24 cents per pound. The second section to the right weighs and computes up to one pound, from 25 to 80 cents per pound. All purchases of one pound or less are weighed on the top beam, the poise of which is attached to the price indicator for both sections of chart. For any weight exceeding one pound, you will then use the other beams and weights which are furnished with the scales.

No. 4-A-547. Weighing capacity 30 pounds, computes fractions of ounces from 5 to 30 cents per pound. Price, each.....**$17.50**

No. 4-A-548. Weighing capacity 10 pounds, computes fractions of ounces from 5 to 30 cents per pound. Price, each.....**$15.00**

$1.62 60-lb. Capacity Spring Counter Scale

Spring counter scale, 60 lbs. capacity. This scale is of light steel construction throughout, is enameled and ornamented with aluminum. The dial is of white enamel 8 inches in diameter and the markings are very plain.

We wish to call your particular attention to the double platform supports which evenly distribute the weight, thus causing the scale to weigh accurately. Its capacity is 60 lbs. by two ounces. The platform is 7½ inches square, made of pressed steel reinforced with malleable iron cross castings.

Each scale packed in a wooden box. Shipping weight, 10 lbs.

No. 4-A-557. Spring Counter Scale, without scoop. Price.....**$1.62**

No. 4-A-558. Spring Counter Scale, with tin scoop. Price..... 1.97

Premier Platform and Counter Scale.

$3.65

Guaranteed Perfect in Every Particular

240 lbs. Capacity.

For the general store trade we offer a heavily constructed platform or counter scale, fork and scoop. Full capacity of scale is 240 lbs. The beam is marked in half ounce marks to 44 lbs. Three loose weights make up the capacity of scale.

The pivots and bearings of the scale are thoroughly tempered. Scale is carefully sealed for the most accurate weighing, and is recommended to the most critical weighers. For use in groceries, markets, hardware stores, in fact any place where a high grade counter platform scale is used.

We guarantee that every scale will weigh accurately and be as satisfactory in every particular as any scale that you may be able to purchase. We ship these scales on ten days trial and if not entirely satisfactory they can be returned to us at our expense and we will cheerfully refund the amount paid.

Size of platform, 10x13½ inches. Size of tin scoop, 10x14 inches. Made of heavy tin nicely finished.

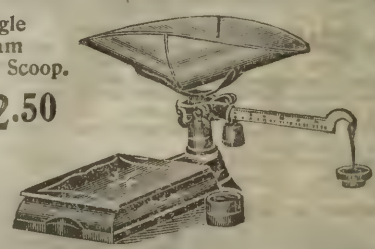
No. 4-A-550. Premier platform counter scale with double brass beam, shipping weight, 45 lbs. Price.....**$4.10**

No. 4-A-551. Premier platform counter scale with single beam, shipping weight, 43 lbs....**3.65**

Perfection Platform and Counter Scale.

Single Beam Tin Scoop.

$2.50



These scales are strongly constructed, nicely finished and will weigh correctly from one-half ounce to 240 pounds. The beam is marked in half-ounce marks to 44 pounds.

This is the regular standard union counter scale and is guaranteed to weigh correctly. It is not as finely finished or as well constructed as our Premier Counter Platform Scale, but we assure you that they will give good satisfaction. However, where a scale is in constant use we recommend the purchase of our Premier Platform Counter Scale, as it will wear much longer.

No. 4-A-552. Perfection Single Beam Platform Scale, complete with tin scoop, shipping weight, 40 lbs. Price.....**$2.50**

No. 4-A-553. Perfection Double Beam Union Platform Scale, complete with tin scoop, shipping weight, 42 pounds. Price.....**$2.95**

$2.00 Banner Washing Machine

The principle of this machine has been in use for many years and there are many people who still consider this machine the best means of doing the family washing. This machine, while similar in design to other machines of this type, is much better constructed.

All lumber used in this machine is thoroughly kiln dried, making it practically impossible to warp. In the operation of this machine, the principle is practically the same as hand rubbing, only it is done with the cradle, which makes it possible to turn out the washing much quicker and with much less effort.

The body of this machine is made of one inch selected lumber with a heavy galvanized iron bottom. Legs are of oak. The inside cradle or rubber is made of throughly seasoned corrugated lumber, forming a perfect rubbing surface. All parts of this machine are instantly removable.

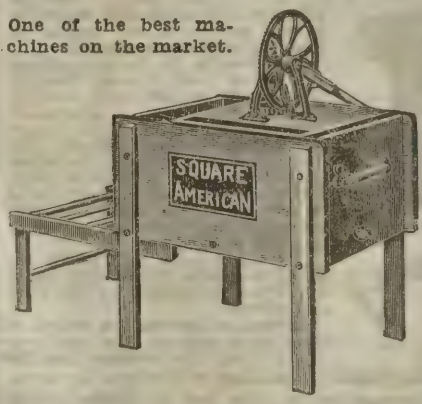
This machine has the removable bottom, a feature not in all machines of this style, and metal parts coming in contact with water are heavily galvanized.

No. 4-A-446. Inside dimensions. Width, 19 inches. Length, 28 inches. Depth, 17 inches. Shipping weight, crated, 48 lbs. Price.....**$2.00**

If you intend building a home we earnestly request you to read our "Free Plan" offer, and the "Material Specification" as outlined in the Lumber Section of this book.

$2.95 Square American Washing Machine

One of the best machines on the market.



This machine has had large sale and has proven very popular and in no instance has it failed to give perfect satisfaction.

The Tub is made of one inch thoroughly kiln dried Louisiana cypress which is acknowledged to be the best washing machine lumber procurable.

The Legs are of one inch clear oak substantially bolted to the body of the machine. A feature of these tubs which will not be found in others is that it is strongly cross bolted with heavily galvanized bolts extended through the tub from leg to leg. This feature is very essential in a square type machine inasmuch as it makes it very much stronger than it is possible to make a washer of this type in any other construction, and it will stand up and do more hard work than six of any other washing machines of the same type that are **not** so constructed.

All metal parts contained in this and in all other tubs which we offer, that come in contact with water are heavily galvanized, thus preventing rust. The gearing is made of the very best quality of gray iron, which is tougher and stronger than the common iron castings used in many washing machines and are therefore less liable to breakage.

The Tub is equipped with Adjustable Tub Stand, also a Wringer Board and Soap Box.

The machine is finished in natural colors, all castings being bronze finish

No. 4-A-445. Inside dimensions of tub: Width, 17½ inches. Length, 25 inches. Depth, 11½ inches. Shipping weight, crated, 69 lbs. Price.....**$2.9**

$3.15 Round American Washing Machine

Improved type of Lever Rotary Washing Machine and is meeting with great favor wherever sold. While it is similar in construction to others of the lever operated washing machines, the construction is different, and it is a much better washing machine than others of the same type that are being generally offered.

The tub is made of thoroughly kiln dried Louisiana cypress, corrugated on sides and bottom. Pin wheel is made of thoroughly seasoned hardwood, heavily galvanized center post.

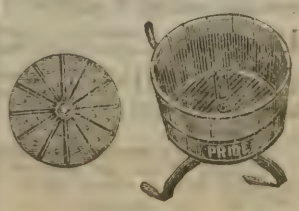
All gearing is made of the best gray iron casting and fully guaranteed against defects in material or workmanship. Legs are made of one inch oak and are easily removable.

We would call attention to the fact that this machine has a heavy wringer board attached to the tub. Many of the machines of similar type are without this feature, which is a very essential one that will appeal to the housewife.

Machine is finished in colors and all gearing in bronze finish.

No. 4-A-444. Dimensions of tub: Depth, 13¾ inches. Diameter, 21 inches. Shipping weight, crated, 54 lbs. Price.....**$3.15**

$5.25 Pride Swing Washing Machine



Highest type of machine of its class on the market. The clothes are washed absolutely clean by placing same inside of tub after which the rubber is placed on top of them and the motion of the machine is operated by handle as shown in illustration, on the side of tub.

It is mounted on special gears and castings, and oscillating movement is helped and rendered easier in the operation by two heavy coil springs placed at the bottom of tub that tend to pull it in the opposite direction when it has reached its limit of movement.

The inside of tub is corrugated both sides and bottom, and the self adjustable wash board is scientifically bored and fitted with rubbers.

It is finished in beautiful natural wood, two heavy coats of high grade varnish and all outside iron parts painted in a light, attractive green. The machine is beautiful in appearance and its mechanical construction is all that could be desired.

No. 4-A-447. Inside Dimensions: Depth, 13¾ inches. Diameter, 21 inches. Shipping weight, crated, 63 lbs. Price.....**$5.25**

$5.25 Chicago Rotary Washing Machine

This is the most substantial and easiest working Rotary Washing Machine on the market. If you are looking for a Rotary machine you cannot possibly do better than to buy our Chicago Rotary. **We absolutely guarantee this machine to be perfect in all details of material and workmanship.**

The Gearing is the most simple and easiest running on any washing machine of similar type on the market. Is enclosed, as illustrated, thereby making it impossible for any child or adult to injure himself. We wish to call your particular attention to the hood which encloses the gears, which not only serves the purpose of keeping out the dirt, but prevents any possible chance of injury to adults or children.

The tub is made of the best selected Louisiana cypress thoroughly kiln dried, corrugated on the sides and bottom.

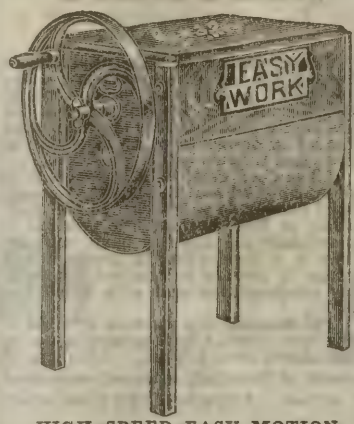
Instead of having the extended stave leg as used on other machines of this type, this machine has the detachable leg which does away with the necessity of throwing the entire machine away in case a leg becomes broken. The legs are cross braced and bolted, making them very substantial. This machine has a very heavy and substantial wringer board attached to the tub.

The iron post which turns the wood pin wheel on the inside of the machine is heavily galvanized, as are all metal parts which come in contact with water, thus preventing rust.

There are no springs, clutches or any other mechanism that can possibly get out of order. Machine is beautifully finished in golden oak. All hoops and metal parts are bronze finish.

No. 4-A-443. Inside dimensions of tub:
Depth, 13¾ inches. Diameter, 21 inches.
Shipping weight, crated, 84 lbs. Price **$5.25**

$5.85 Easy Work Washing Machine



HIGH SPEED EASY MOTION

Our Easy Work Washing Machine is of the Cylinder type, the same in general construction as our Premier High Speed Washing Machine, with the exception that it is operated by crank motion, the balance regulated by the fly wheel, thus insuring a steady motion which assures easy work. It will not, however, enable you to turn out your washing as fast as it could be done if you used our Premier High Speed Washing Machine. However, this is a strictly high grade washing machine in every particular and is the same in general construction with the exception that it is not fitted with the high speed lever.

The Cylinder is made of 1½ inch kiln dried cypress moulded so as to form a perfect wash board surface on the inside of the cylinder. The washing is done by putting the clothes inside of the cylinder and after replacing lid the cylinder is revolved in either direction through the water.

The clothes are thoroughly cleaned by hot soap suds being forced through the material, thereby eliminating all wear and tear as in a Rotary Machine and making it possible to wash anything from the finest lace curtain to a heavy blanket without the least injury.

The Body is made of one inch kiln dried cypress, the bottom being covered with heavy galvanized iron.

The legs are made of 1½ inch oak and are heavily cross bolted from leg to leg, making the machine very substantial.

The Gearing is all hung from one piece, making it impossible for the machine to get out of order in any way and no matter what shrinkage may occur in the body of the tub the gearing will always remain in the same relation to each other.

The Machine is beautifully finished in natural colors. Wheel is painted either green or gold bronze.

No. 4-A-442. Dimensions of Cylinder: 14½ inches in diameter, 22 inches long. Dimensions of Tub, 18½ inches wide, 22 inches long, 20 inches deep. Shipping weight, crated, 98 lbs. Price. **$5.85**

$8.50 Premier High-Speed Cylinder Washing Machine

The Only Correct Principle Washing Machine Made.

$8.50

No wear, no tear on clothes.

Showing cylinder and interior construction of our "Premier" High Speed Washing Machine.

This is the latest type of hand washing machine made. It is constructed on the cylinder principle, which is used in every large laundry in the country.

The clothes are placed in the cylinder and are washed by the action of the water which comes in contact with them as the cylinder is revolved through the water. This is the first and only successful cylinder washing machine ever placed on the market with a high speed lever attachment. This lever renders the work very easy and it takes but an 8 inch pull backward and forward to completely revolve the cylinder at a high speed. This machine without a doubt is the easiest operated machine ever constructed.

THE GEARING is very simple, consisting of but three small galvanized cogs all hung from one piece on the inside of the tub. There is absolutely nothing to get out of order—no gearing on the outside at all to maim adults or children.

THE CYLINDER is made of 1½ inch kiln dried cypress, moulded so as to form a perfect wash board surface on the inside.

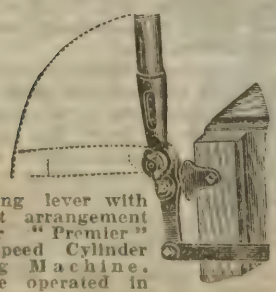
THE LEVER has a socket arrangement so that it can be moved to operate in either a sitting or standing position.

THE BOTTOM OF TUB is made of heavily galvanized iron, and all metal parts coming in contact with water are heavily galvanized to prevent rusting.

Compare this machine with the so-called High Speed Rotary Machines on the market and notice the difference in the internal construction. **We guarantee that our Premier High Speed Washing Machine** will thoroughly wash the clothes in less time than any other machine on the market and without any wear and tear. Those who have used Rotary Washing Machines will realize what a great difference this makes.

Should you purchase one of these washing machines from us and after giving it a thorough trial do not find it satisfactory in every respect, you may return it to us at our expense.

The Cylinder is instantly removed and can be taken out without any effort. All parts are easily accessible, making it possible to clean the machine readily.



Showing lever with socket arrangement of our "Premier" High-Speed Cylinder Washing Machine. Can be operated in either a sitting or standing position.

THE TUB is made of 1 inch thoroughly kiln dried lumber with inch-and-a-half solid oak legs. The tub is cross bolted with heavy galvanized bolts from leg to leg, making it impossible to separate.

THE MACHINE is finished in natural colors and beautifully decorated. A feature of this machine is that when not in use the lever and wheel can be easily removed, thereby making a hardy kitchen table.

No. 4-A-441.
Dimensions of Cylinder, 19½ inches long, 14 inches diameter.
Dimensions of Tub, 18½ inches wide, 22 inches long, 20 inches deep.
Shipping weight, crated, 110 lbs.
Price **$8.50**

FIRE PROOF SAFES AND VAULT DOORS

CONSTRUCTION.

The bodies of the Premier Safes are made without panels. They are formed of a continuous piece of re-rolled wrought steel bent around the entire safe and riveted at the bottom. Heavy solid re-inforced wrought steel angles at front and rear to which this plate is riveted, protect and strengthen it. The corners are bent round, giving greater strength and rigidity, and are much neater in appearance than the square corner safe. The material used throughout is heavier than is ordinarily used, and is of the best quality that can be procured.

LOCKS.

This is one of the most important parts of our line of safes, and particular attention is directed to combination locks, using a high grade lock of the most modern type. It has a combination dial and separate T handle for operating bolts, and by means of a very ingenious device, is so arranged that should any attempt be made to enter the safe, by drawing out or knocking in, either the dial or T handle spindle, it would result in a most hopeless lock-out. It is absolutely non-pickable and susceptible to almost an innumerable number of changes and it is practically impossible to get out of order. Our four-tumbler non-pickable lock is the result of years of study, and is as near perfect as it is possible for a lock to be. This lock is used on all of our safes, and is protected with tempered drill-proof steel plates.

CONSTRUCTION OF DOORS.

All doors have the improved narrow flanges; 5 flanges on numbers 10 to 30, six flanges on numbers 40 and 50, the larger safes having the heavier wider flanges. This is recognized as the best construction, since it retards the penetration of heat and it strengthens the door greatly. Round bolts operate through the inner flange. This method enables us to fill the door properly and renders the lock accessible for changing the combination.

FIRE PROOF FILLING.

The walls of these safes are filled with an absolutely fire-proof non-conducting preparation, which in a very short time after the filling is put in the safe, it adheres to the steel and becomes perfectly dry and hard, forming a compact mass as resistible as granite, thereby adding firmness to the body of the safe, which is already secured to a very great extent in the construction of its shell by heavy sheet steel and rounded corners.

CABINET WORK.

The cabinets are finished in oak; they are fitted with air chambers at top, bottom, sides and back which effectually overcomes dampness, a fault common with many safes when closed for a long time.

FINISH.

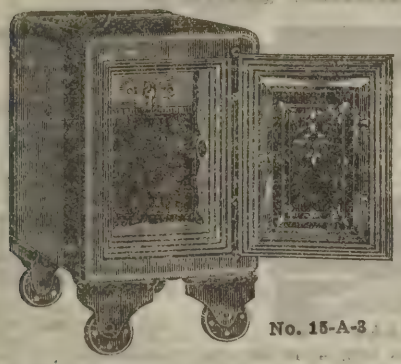
Every safe is handsomely finished and name lettered thereon without charge, if requested.

In the general construction of our safes we have endeavored to overcome the weak points and objectionable features found in other safes now on the market, and have added many improvements. Each department of our factory is in charge of an expert, and the entire shop is under the direct management of one who is recognized as the foremost safe expert in the country.

By improved methods of manufacturing and the use of especially designed machinery, we are in a position to offer you better safe values than you could possibly secure elsewhere.

SHIPPED FROM FACTORY, CENTRAL INDIANA.

Household Safe



No. 15-A-3

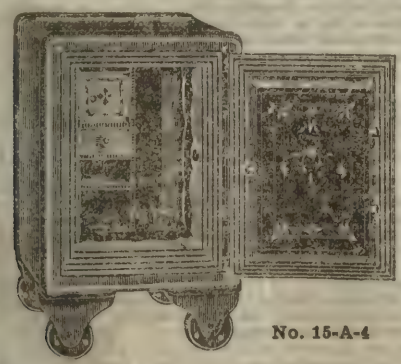
Outside Dimensions	Inside Dimensions
Height 24½ inches	Height 11 inches
Width 15½ inches	Width 7 inches
Depth 17 inches	Depth 9 inches

Approximate weight 300 pounds.

ARRANGEMENT OF CABINET WORK

1 drawer 2½x7 inches, with duplicate flat key lock; Book space, 8½x7x9 inches.

This safe we recommend for safekeeping of jewelry, mortgages, deeds and insurance papers. Price **$14.00**



No. 15-A-4

Suitable for farmers or professional men for the protection of valuable documents.

Outside Dimensions	Inside Dimensions
Height 27½ inches	Height 13½ inches
Width 18 inches	Width 9½ inches
Depth 18 inches	Depth 10 inches

Approximate weight 500 pounds.

Arrangement of Cabinet Work

Sub-treasury, 5x5 inches, with duplicate flat key lock and Japanned metal cash tray.
1 drawer with knob, 2½x5 inches
2 pigeon holes, 2½x 5 inches
1 book space, 13½x4½x10 inches. Price.....**$17.50**

FIRE PROOF VAULT DOOR

Brand New Finely Finished

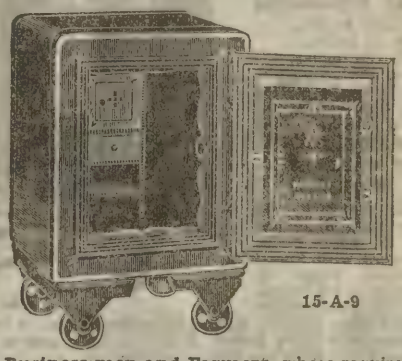
This Vault Door is strongly constructed and warranted to be absolutely fire proof. It is designed to fit opening in wall 78½ inches high, 32 inches wide and thickness of wall 20 inches, opening in clear of doorway 27½ inches wide and 76 inches high. The outer doors are made of 3-16 inch re-rolled Bessemer steel with 2 x 3-16 inch angles at edges through which operate two 1 inch round callendar steel bolts working back and forth.

The bolts are controlled by a Premier patented 4 tumbler combination lock. Inner doors are made of No. 14 steel with 2 x 3-16 inch panel bars. Flat up and down and center bolts are provided on both doors. Bolt work controlled with improved flat key lock with improved duplicate keys.

FINISH: These doors are handsomely finished—black body with gold striping. We will without extra charge letter name above door on request. Approximate weight 650 lbs.

No. 15-A-5 Price.....**$55.00**

Business Man's Safe



15-A-9

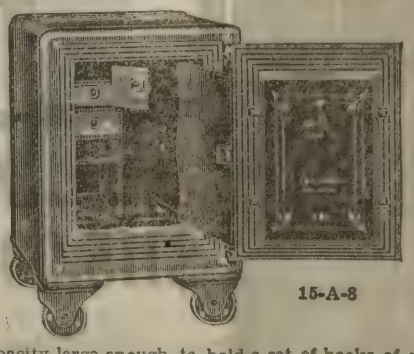
For Business men and Farmers, whose requirements are limited.

Outside Dimensions
Height 30½ inches. Width 19 inches. Depth 19 inches.
Inside Dimensions
Height 15½ inches. Width 10½ inches. Depth 10½ inches.
Approximate weight 600 pounds.

ARRANGEMENT OF CABINET WORK

1 sub-treasury, 5x5 inches, with duplicate flat key lock and Japanned metal cash drawer. 1 drawer with knob, 2½x5 inches. 1 pigeon hole, 2½x5 inches. 1 pigeon hole, 4½x5 inches. Book space, 15½x5½x10½ inches.
Price **$19.75**

Business Man's Safe



15-A-8

Capacity large enough to hold a set of books of standard size.

Outside Dimensions
Height 34½ inches. Width 23 inches. Depth 23 inches.
Inside Dimensions
Height 17½ inches. Width 12½ inches. Depth 12 inches.
Approximate weight, 800 pounds. This safe has an inside door with improved duplicate key lock.

ARRANGEMENT OF CABINET WORK

1 sub-treasury 5x5 inches with duplicate flat key lock and Japanned metal cash tray. 1 drawer with knob 2½x5 inches. 1 pigeon hole, 2½x5 inches. 1 book space. 6½x5 inches. 1 book space, 17½x7½x12 inches.
Price.....$21.75

Lodge and Business Man's Safe

15-A-6

Designed especially for business men, public officials and general purposes.

Outside Dimensions

Height 36½ inches.
Width 25 inches.
Depth 24½ inches.

Inside Dimensions

Height 19½ inches.
Width 14½ inches.
Depth 12½ inches.
Approximate weight 1,000 pounds. Has inside door with duplicate key lock.

$35.00

ARRANGEMENT OF CABINET WORK

1 sub-treasury, 5x5 inches, with duplicate key lock and Japanned metal cash drawer. 2 drawers with knob, 2½x5 inches. 1 pigeon hole 2½x5 inches. 1 pigeon hole, 6x5 inches. 1 book space 19½x9½x12 inches. Price.....**$35.00**

Lodge and Business Man's Safe

Outside Dimensions

Height 42 inches.
Width 27 inches.
Depth 26 inches.

Inside Dimensions

Height 26 inches.
Width 18 inches.
Depth 15½ inches.
Approximate weight 1,150 pounds. Has inside door with improved flat key lock.

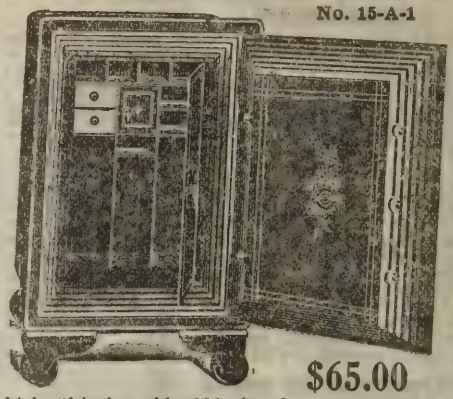
ARRANGEMENT OF CABINET WORK

15-A-7

$45.00

1 sub-treasury, 6½ inches high, 5½ inches wide, 12 inches deep. 3 drawers with knob, 3 inches high, 5½ inches wide, 12½ inches deep. 4 pigeon holes 3 inches high, 6 inches wide, 14½ inches deep. 1 book space, 9 inches high, 5½ inches wide, 14½ inches deep. 2 book spaces each 19 inches high, 6 inches wide, 14½ inches deep. Price.....**$45.00**

Commission Merchant's and Business Man's Safe



No. 15-A-1

$65.00

Outside Dimensions

Height 50 inches
Width 31½ inches
Depth 30 inches

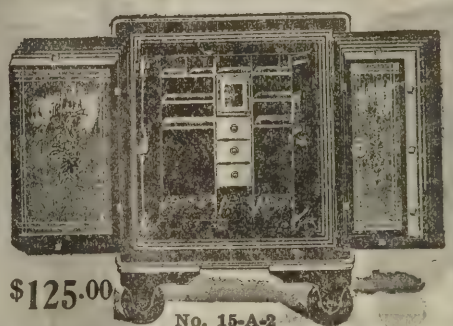
Inside Dimensions

Height 29 inches
Width 18 inches
Depth 17 inches
Approximate weight 2,200 pounds.

ARRANGEMENT OF CABINET WORK

2 book spaces each 19 inches high, 4 inches wide, 16 inches deep.
1 book space, 19 inches high, 5½ inches wide, 16 inches deep.
1 book space, 14 inches high, 8 inches wide, 16 inches deep.
4 pigeon holes, 3 inches high, 4½ inches wide, 16 inches deep.
2 drawers, 3 inches high, 5½ inches wide, 15 inches deep.
1 sub-treasury with duplicate flat key lock, 8 inches high, 8 inches wide, 12 inches deep. Price.....**$65.00**

Double Door Safe with Folding Inside Doors



No. 15-A-2

$125.00

Outside Dimensions

Height 53½ inches
Width 37½ inches
Depth 30 inches

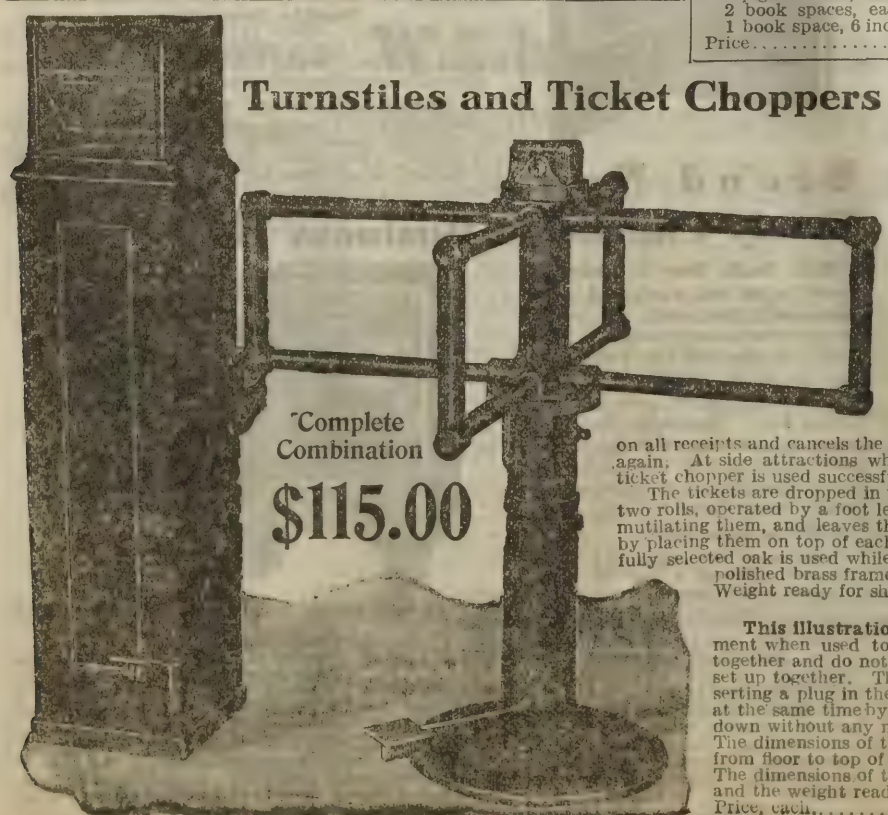
Inside Dimensions

Height 30½ inches
Width 24½ inches
Depth 16 inches
Approximate weight 3,000 pounds.

ARRANGEMENT OF CABINET WORK

2 drawers, each 3 inches high, 7¾ inches wide, 15 inches deep
1 sub-treasury, 8 inches high, 8 inches wide, 15 inches deep.
5 pigeon holes, 3 inches high, 4½ inches wide, 15 inches deep.
4 pigeon holes, 3 inches high, 6 inches wide, 15 inches deep.
2 book spaces, each 20 inches high, 8 inches wide, 15 inches deep.
1 book space, 6 inches high, 5½ inches wide, 15 inches deep.
Price.....**$125.00**

Turnstiles and Ticket Choppers



Turn Stile "A" is the Standard type of Turn Stile and represents the acme of manufacture in this direction. It is the product of nineteen years of experience with consequent improvements from time to time, so that today it is simple and effective and covers every requirement that should be embodied in a turn style. It is substantially made with best quality gray iron base, finished slate color with arms of 1¼ in. special grade seamless steel tubing japanned. It is operated by a foot lever, which releases the arms. The register, which registers from one to 100,000 and can be reset at any intermediate number at any time, is enclosed in a brass casing, locked with a Yale lock, so that only the proper person may open it. The length of the arms over all is 41 inches and the height from the floor to the top of the arm 36 inches. Weight ready for shipping 138 pounds.
Price, each.....**$50.00**

TICKET CHOPPER or cancelling machine in a great many cases is used to advantage with the turn stile. It completes the system, is an absolute check on all receipts and cancels the tickets in such a way that they cannot possibly be used again. At side attractions where it is the desire to handle crowds very rapidly the ticket chopper is used successfully, independent of the turn stile.

The tickets are dropped in the open glass top of the machine and are fed in between two rolls, operated by a foot lever, which perforates them with clean cut holes without mutilating them, and leaves their surface smooth so that they can be easily counted by placing them on top of each other in the usual way, if desired. For the body carefully selected oak is used while the top is made of heavy plate glass with a highly polished brass frame. The dimensions are 4 feet high, body 10 x 10 inches. Weight ready for shipment 100 pounds. Price, each.....**$65.00**

This illustration of turn stile and ticket chopper shows the arrangement when used together. They are both constructed to use singly or together and do not require any extra attachments or additional parts when set up together. The foot lever of the turn stile can be held down by inserting a plug in the base and the ticket chopper will operate both machines at the same time by releasing the arm of the turn stile as the lever is pressed down without any more pressure than is required to operate the former alone. The dimensions of the turn stile are: Length of arms over all 41 inches, height from floor to top of arms 36 inches, weight ready for shipping, 138 pounds. The dimensions of the ticket chopper are 4 feet high, body 10 x 10 inches, and the weight ready for shipping 100 pounds. Complete combination.
Price, each.....**$115.00**

Series and Bridging Telephones

Our line of telephones are built under the direct supervision of one of the most able telephone engineers in the country, and we offer the best constructed instruments on the market at prices which will compete with the cheaper lines of telephones which are being offered.

We guarantee any telephone which we sell will operate successfully and prove entirely satisfactory to you and if not equal to any instrument you have ever used from any standpoint, you may return them at our expense within 30 days and we will refund the full amount paid.

TO CONNECT ON ESTABLISHED LINES

It is not necessary that telephones be of the same manufacture, but the ringers on the bridging line must be of the same resistance; that is, if the line you wish to connect is equipped with 1600 ohm ringers the ringer on your telephone must be the same resistance, otherwise you will cripple the service of the entire line.

THE CABINETS

Are made of highly polished golden oak which is kiln dried and are constructed in the most careful and workmanlike manner with lock corners. Each telephone is equipped with self-cleaning, approved Lightning Arrester, which gives most perfect protection against burn-outs by lightning.

The Receiver is of equal vital importance as the Transmitter. Our Receiver is of the double pole, self-contained type. A heavy metal cup supports the permanent magnet and coils. In fact the entire receiver is assembled on this metal cup. The adjustment is permanent. The entire mechanism may be removed from the shell by taking off the cup and covering the diaphragm. The Receiver has concealed binding posts, and there are no exposed metal parts. Each Receiver is equipped with a three foot Worsted Cord.

The Generators are of the highest efficiency which is due to their perfect electrical and mechanical construction. The bars are made of a special magnet steel, are very heavy, thus insuring the greatest possible output. The armature chamber is dust proof. The armatures are built of soft iron and wound with the best grade of heavily insulated magnet wire. The gears are cut from solid brass and are noiseless.

The Automatic Shunt on our Series, and Cut-in Device on our bridging Generators are guaranteed to give a higher output of current and operate more successfully than any Generator on the market.

We Guarantee that our telephones will work successfully (without condensers) where there are as many as 30 telephones on the line, and if provided with Condensers they will work successfully where there are as many as 50 telephones on the line.

The Induction Coil is wound with silk insulated wire to the proper resistance. They have fiber heads with screw clip terminals so that a Coil can be easily removed from the telephone.

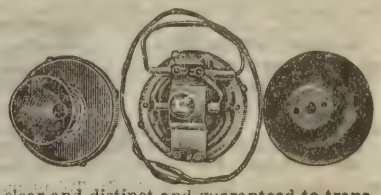
The Switch Hook is of the Long Lever Self-Contained Type. The Springs are of German Silver and are guaranteed to make positive contacts. The Switch Hook is so arranged that the fork or frame is insulated and is not in the circuit. Therefore it is impossible to obtain a shock when ringing and having hold of the Switch Hook at the same time.

Condensers. We recommend that all Bridging Telephones be equipped with Condensers. The benefits derived by using Condensers in Bridging Telephones are explained as follows:

We will guarantee that on a line equipped with any number of telephones, you can ring any party on your line regardless of the number of receivers removed from the hooks. All Bridging Telephones sold by us have the Condenser Loops but the Condensers are not included in the price of telephones. We offer the Condensers of proper construction, each one guaranteed to work perfectly, price each..... **$0.50**

The Ringer is of the type employing two spools or coils. The permanent magnet is fastened to the base by two screws. It also supports the adjustment of the armature. The adjustment of our Ringer is obtained by a screw passing through the permanent magnet. Turning this screw to the right or left with an ordinary screw driver will obtain an immediate adjustment. Our Ringers are wound to the proper resistance with double silk insulated wire and are heavily nickel plated and highly finished.

The Transmitter is one of the most vital parts of the telephone. We use a solid back Button Type Transmitter which has highly polished Carbon Electrodes. It is a new model and constructed along the lines that are in use by the standard companies. The carbon diaphragm and granulated carbon with which these Transmitters are fitted is the best it is possible to secure, making the articulation clear and distinct and guaranteed to transmit successfully over long lines.



Telephones Shipped Direct From Factory, Central Ohio.

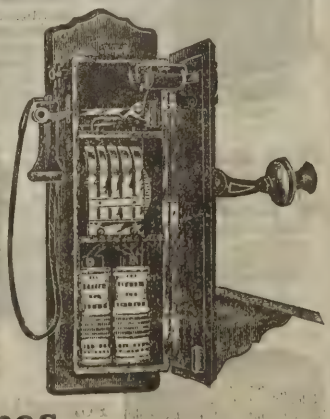
Compact Cabinet Bridging Telephones

No. 14-A-1. 5-bar Magnet Compact Bridging Telephone with 1000 Ohm Ringers, and two dry batteries.
Price, each..... $ 9.65
Price, for six..... 56.10

No. 14-A-2. 5-bar Magnet Compact Bridging Telephones with 1600 Ohm Ringers complete with two dry batteries.
Price, each..... $ 9.85
Price, for six..... 57.00

No. 14-A-3. 5-bar Magnet Compact Bridging Telephones with 2000 Ohm Ringers complete with two dry batteries.
Price, each..... $10.00
Price, for six..... 58.50

No. 14-A-4. 5-bar Magnet Compact Bridging Telephones with 2500 Ohm Ringers complete with two dry batteries.
Price, each..... $10.75
Price, for six..... 62.40



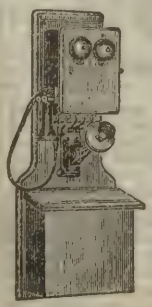
Series Telephones

Series Telephones can be used successfully on party lines where there are not more than four telephones installed. They are, however, more generally used for regular telephone exchange work: that is, where the telephones are in connection with the Central Office having a switch board.

In construction, our Series Telephones are equal in every respect to our Bridging Telephones. They are equipped with three Magnet 80 Ohm Generators, Double-pole Self-Containing Type Receivers, Solid Back Transmitters, long lever self contained Switch Hook with German Silver Springs. In fact, the construction of this telephone is in every sense high grade and equal to any on the market.

No. 14-A-9. Compact Series Telephone, complete with two dry batteries. Price, each $7.75

No. 14-A-10. Long Cabinet Type Series Telephone, complete with two dry batteries.
Price, each..... 8.20



LONG CABINET TYPE BRIDGING TELEPHONES

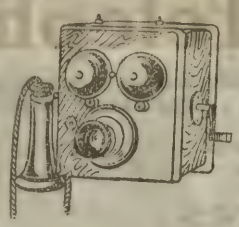
No. 14-A-5. 5-bar Magnet Long Cabinet Type Bridging Telephones with 1000 Ohm Ringers complete with two dry batteries.
Price, each..... $10.25
Price, for six..... 59.25

No. 14-A-6. 5-bar Magnet Long Cabinet Type Bridging Telephone with 1600 Ohm Ringers complete with two dry batteries.
Price, each..... $10.50
Price, for six..... 61.00

No. 14-A-7. 5-bar Magnet Long Cabinet Type Bridging Telephones with 2000 Ohm Ringers, complete with two dry batteries.
Price, each..... $10.75
Price, for six..... 62.50

No. 14-A-8. 5-bar Magnet Long Cabinet Type Bridging Telephone with 2500 Ohm Ringers, complete with two dry batteries.
Price, each..... $11.55
Price, for six..... 66.25

TWO-PARTY LINE TELEPHONES.

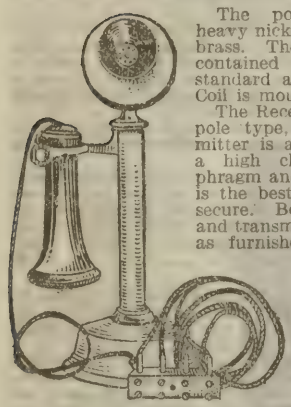


No. 14-A-11. Equipped with special 3-bar Generators, first class receivers and transmitters. These telephones are especially desirable on short lines not exceeding five miles.

The case is made of oak highly polished, and all parts are heavily nickel plated and polished.

Price, complete, including two telephones and four batteries.....$9.50

DESK TELEPHONES.



The portable stand is heavy nickel plated, polished brass. The Switch Hook is contained in the upright standard and the Induction Coil is mounted in the base.

The Receiver is the double pole type, and the Transmitter is a solid back with a high class carbon diaphragm and granular carbon is the best it is possible to secure. Both the receiver and transmitter are the same as furnished in connection with our Compact and Long Style Cabinet Bridging Telephones. The Receiver and Conducting Cord is silk covered, Length of cord furnished, five feet.

Generators are contained in a polished oak case.

No. 14-A-12. Bridging Desk Telephone, complete with 1000 Ohm Ringer and two dry batteries. Price, each.....$12.50

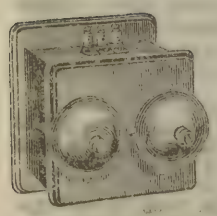
No. 14-A-13. Bridging Desk Telephone, complete with 1600 Ohm Ringer and two dry batteries. Price, each..... 12.80

No. 14-A-14. Bridging Desk Telephone, complete with 2000 Ohm Ringer and two dry batteries. Price, each..... 13.25

No. 14-A-15. Bridging Desk Telephone, complete with 2500 Ohm Ringer and two dry batteries. Price, each..... 13.50

No. 14-A-16. Series Desk Telephone, complete with 80 Ohm Ringer and two dry batteries. Price, each..... 10.50

EXTENSION BELLS.



These are additional call bells to be connected with the telephones and can be placed in the shop or any room distantly located from the telephone.

It often happens that it is necessary to leave the office or room in which the telephone is located and if is very convenient to have the Extension Bell at some point where a telephone call will be heard and answered.

Understand that these are signal bells and are not telephones. It is therefore necessary after receiving the ring to go to the point where telephone is located and answer the signal. It is necessary that the Extension Bell be of the same ringing strength as the telephone. No additional battery is required to operate this Bell.

No. 14-A-18. 80 Ohm Series Extension Bell. Price, each.....$1.45

No. 14-A-19. 1,000 Ohm Bridging Extension Bell. Price, each..... 2.25

No. 14-A-20. 2,000 Ohm Bridging Extension Bell. Price, each..... 2.70

No. 14-A-21. 2,500 Ohm Bridging Extension Bell. Price, each..... 3.00

ANTI HUM.

No. 14-A-22. Used to stop humming on telephone or telegraph lines. Price, each...$0.18

GALVANIZED TELEPHONE WIRE.

We offer B. B. galvanized iron wire, which is double galvanized, each coat being uniform in its application, thereby insuring durability. It is put up in 50 lb. coils.

No. 14-A-23. No. 10 gauge, weight, per mile, approximately 260 lbs. Price, per 100 lbs...$3.85

No. 14-A-24. No. 12 gauge, weight, per mile, approximately 165 lbs. Price, per 100 lbs.. 3.95

No. 14-A-25. No. 14 gauge, weight, per mile, approximately 96 lbs. Price, per 100 lbs... 4.00

GALVANIZED STEEL TELEPHONE WIRE.

Double galvanized wire generally used for rural telephone lines. Put up in coils containing fifty pounds. Sold in full coils only.

No. 14-A-26. Gauge No. 10, weight, per mile, 260 lbs. Price, per 100 lbs.....$2.75

No. 14-A-27. Gauge No. 12, weight, per mile, 165 lbs. Price, per 100 lbs..... 2.85

No. 14-A-28. Gauge No. 14, weight, per mile, 96 lbs. Price, per 100 lbs..... 3.10

INTERIOR TELEPHONE WIRE.

No. 14-A-29. Double conductor, rubber covered, twisted and braided, No. 19 Gauge. Price, per 100 feet.....$1.35

ANNUNCIATOR AND OFFICE WIRE.

Double cotton covered insulated two winds of cotton yarn applied in opposite directions, waxed and paraffined, furnished either on spools containing about 8 lbs. or in coils weighing one pound.

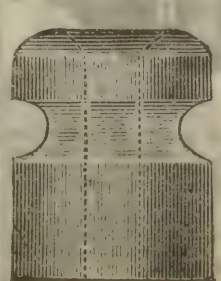
No. 14-A-30. No. 18 Gauge, 150 feet to the pound. Price per pound.....$0.28

PONY GLASS INSULATORS.

Put up 400 in the barrel. Shipping weight about 300 lbs.

No. 14-A-31. Price, per barrel containing 400 Insulators.....$6.00

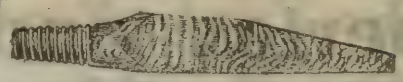
Price, in any quantity less than barrels, each.....$0.01½



PORCELAIN INSULATORS.

No. 14-A-32. No. 14x31½, space between groove and bottom 1 inch, diameter 1½ inch, Height, 1½ inch, Hole, ⅛ inch, Groove, ⅛ inch. Price, per 100.....$0.70

PAINTED OAK PINS.



No. 14-A-33. 1½. To be used on cross arms in connection with Pony Glass Insulators. Price, per bag containing 250 pins.....$1.25

Price, each in less than 250 lots.....$0.01½

PAINTED OAK BRACKETS.

For use in telephone construction where cross arms are not used. Can be fastened to pole or building.

No. 14-A-34. Price, per bag containing 250 brackets.....$2.25

Price each, in less quantities than 250..... .01

YELLOW PINE CROSS ARMS.

Dimensions, 2¾x2¾, bored for 1½ inch oak pins.

No. 14-A-35. 2 Pin, Length 30 in. Price, each.....$0.12½

No. 14-A-36. 4 Pin, Length 42 in. Price, each..... .17

No. 14-A-37. 6 Pin, Length 62 in. Price, each..... .25

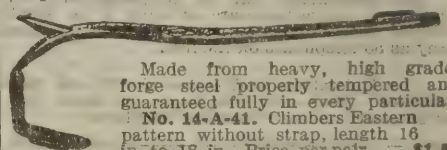
No. 14-A-38. 8 Pin, Length 32 in. Price, each..... .33

CROSS ARM BRACES.

	Length	Width	Thickness	Price
No. 14-A-39. Plain	20	1	⅛	$0.02½
No. 14-A-40. Galv	20	1	⅛	.03½

LINEMAN'S CLIMBERS.

Made from heavy, high grade, forge steel properly tempered and guaranteed fully in every particular.

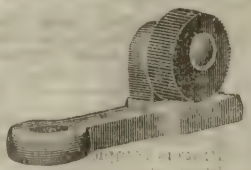


Made from heavy, high grade, forge steel properly tempered and guaranteed fully in every particular.

No. 14-A-41. Climbers Eastern pattern without strap, length 16 in. to 18 in. Price, per pair.....$1.50

No. 14-A-42. Straps for Eastern pattern Climbers, for set of four straps with pads. Price..... 1.00

HOLD FAST WIRE GRIP.



This is a simple, durable, practical tool, the eccentric part being made from the best 1½ inch round steel knurled on its surface so as not to injure the wire. Will take from No. 2 to No. 13 Gauge wire.

No. 14-A-43. Price, each.....$0.29

AUTOMATIC WIRE CLAMP.

Used for stretching smooth wire of all kinds. Made of the very best crucible steel properly tempered.

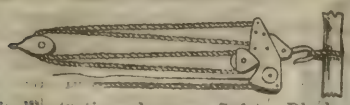
No. 14-A-44. Price, each.....$0.75

COME ALONG CLAMPS.

This is a very popular tool for linemen, made of the very best crucible steel and fully guaranteed. Will take wire No. 9 or smaller.

No. 14-A-45 Price, each.....$0.50

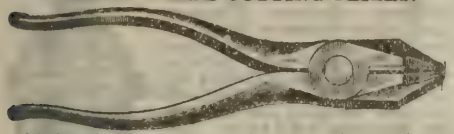
SAFETY BLOCK WIRE STRETCHER.



This illustration shows a Safety Block to be used as a wire stretcher in connection with our Hold Fast Wire Grip, stretching smooth wire. The Safety Block can be used in connection with smooth, barb or woven fence wire. Price, complete with 16 ft. of ⅜ inch rope, but does not include Hold Fast Wire Grip.

No. 14-A-46. Price, each.....$0.90

LINEMEN'S SIDE CUTTING PLIERS.



Made of the very best Imported Swedish tool steel. Polished face and jaws. A strictly high-grade guaranteed tool.

No. 14-A-47. Length 7 inches. Price, each..$0.65
No. 14-A-48. Length 8 inches. Price, each.. .75

ELECTRICIANS' HEAVY SIDE CUTTING PLIERS.

Insulated Handles.

This is a high grade tool, made of the very best grade of improved tool steel, with polished face and edges, drop forged handles, and guaranteed fully in every particular.

No. 14-A-49. Price, each.....$1.25

LINEMEN'S COMBINATION WIRE AND SLEEVE CLAMPS.

Drop forged from the highest grade of tool steel. Guaranteed to be strictly a first-class tool in every particular. Furnished with polished head. Length of handles, 10¾ inches.

It has five holes for Nos. 6, 8, 10, 12 and 14 wire. Reversing the handles it will take 8, 10, 12 and 14 McIntyre Sleeves.

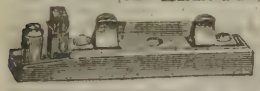
No. 14-A-50. Price, each.....$1.54

LINEMEN'S SPLICING CLAMPS.

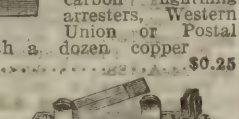
Made of the highest grade tool steel properly tempered. Each tool fully guaranteed. Length, 10¾ inches. Polished head, Mill cut teeth. It has five holes for wire Nos. 6, 8, 10, 12 and 14.

No. 14-A-51. Price, each.....$1.35

FUSE BLOCKS WITH CARBON LIGHTNING ARRESTERS.



No. 14-A-52. Single pole porcelain base fuse block with carbon lightning arresters, Western Union or Postal style. Price each, with a dozen copper tipped fuses.....$0.25



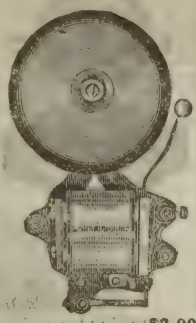
No. 14-A-53. Double-pole porcelain base Fuse Block, with carbon lightning arresters, Western Union or Postal style. Price, each with a dozen copper-tipped fuses.....$0.55

IRON BOX BELL.

No. 14-A-54. 3 inch Iron Box Bells for door and general call purposes. Price, each.....$0.19

No. 14-A-55. 4 inch Iron Box Bells, used where a louder tone is required. Price, each..... .29

SKELETON BELLS.



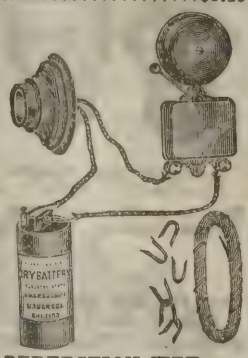
These bells are used for alarm or in noisy places such as shops, mills, etc. where the ordinary Iron Box Bell could not be heard.

These bells are the best it is possible to produce. The adjustment is perfect. The contact points are platinum, thus insuring a uniform, penetrating ringing.

No. 14-A-56. 4 inch gong. Price.....$1.10
No. 14-A-57. 5 inch gong. Price..... 1.45
No. 14-A-58. 6 inch gong. Price..... 1.65
No. 14-A-59. 8 inch gong. Price.....$3.00
No. 14-A-60. 10 inch gong. Price..... 4.75
No. 14-A-61. 12 inch gong. Price..... 6.00

IRON BOX BUZZERS.

No. 14-A-62. Used in place of bell for call purposes. Makes a loud, buzzing sound. Price, each.....$0.19



ELECTRIC BELL OUTFITS.

No. 14-A-63. Consisting of one 3-inch Iron Box Bell, one dry battery, one push button, 75 ft. annunciator wire and one package of staples. Price, per set...$0.65

PERFECTION WET BATTERIES.

No. 14-A-64. For use on open circuits for door bells, telephones, etc. These batteries are easily re-charged. Price, complete, including glass jar, zinc, round carbon and one charge of sal ammoniac.

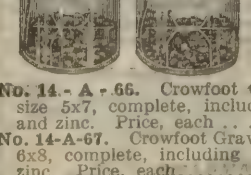
Price.....$0.28
Extra zincs, each..... .03
Extra carbons, each..... .15
Sal ammoniac, per charge.. .05

STANDARD FULLER BATTERIES.

No. 14-A-65. This is a long life, high grade battery, recommended for use on long distance telephones, gasoline engines, motors, nickel plating outfits and laboratory work. For gasoline engines, we recommend that a set of four batteries be used. Size of jar, 6x8 inches. Price of battery complete, including charge.

Price.....$1.25
Extra carbon cylinders.... .42
Extra porous cups..... .18
Extra zincs..... .18
Salts for re-charging, 1 lb. can..... .22

CROWFOOT GRAVITY BATTERIES.



Suitable for closed circuits. Intended for telegraph line work. This is the battery used by the large telegraph companies and is recognized as a standard for this work the world over. Our prices do not include blue vitriol.

No. 14-A-66. Crowfoot Gravity Battery, size 5x7, complete, including jar, copper and zinc. Price, each.....$0.42
No. 14-A-67. Crowfoot Gravity Battery, size 6x8, complete, including jar, copper and zinc. Price, each..... .55
No. 14-A-68. Crowfoot Gravity Battery Jar, size 5x7. Price, each..... .13
No. 14-A-69. Crowfoot Gravity Battery Jar, size 6x8. Price, each..... .15
No. 14-A-70. Zinc for size 5x7 jar. Price.. .35
No. 14-A-71. Zinc for size 6x8 jar. Price.. .34
No. 14-A-72. Copper for size 5x7 jar. Price .07
No. 14-A-73. Copper for size 6x8 jar. Price .07
No. 14-A-74. Blue Vitriol, price per lb.... .10

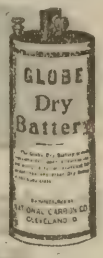
COLUMBIA DRY BATTERIES.

These batteries have been before the public for years and are without question the most efficient and satisfactory batteries on the market. They will last much longer than other dry cell batteries and are guaranteed to give the utmost satisfaction.

Sizes 2½x6 inches and 3½x8 inches, are especially adapted for automobile and gasoline engine work.

	Size of Shell Inches	Amps.	Price Each
No. 14-A-75	1½x4	3 to 5	$0.18
No. 14-A-76	2 x5	6 to 8	.20
No. 14-A-77	2½x6	12 to 15	.22
No. 14-A-78	3½x8	18 to 25	.60

GLOBE DRY BATTERY.



No. 14-A-79. Is made especially for open circuits and will give better results than any other dry battery of the same class. This battery is best suited for door bells and other similar work. It is 2½ inch diameter, 6 inch high.

Price, each.....$0.15
Price, per dozen..... 1.75

PUSH BUTTONS.

No. 14-A-80. Wood push buttons, nicely finished in oak, ash, cherry or walnut.

Price, each.....$0.06
Price, per dozen ... .70

METAL PUSH BUTTON.

No. 14-A-81. Bronze finish, 2¾ inch diameter. Price each ...$0.12

No. 14-A-82. Ornamental metal push button, with open back: Size 4½x2 inches, polished bronze or old copper finish. Price, each $0.30

WOOD BASE SWITCHES.

No. 14-A-83. Wood Base Switches, nicely finished in oak, walnut, black, cherry and mahogany finish.

1-point switch.....$0.09
2-point switch..... .10
3-point switch..... .12
4-point switch..... .13

JUMP SPARK COILS.

For stationary and marine engines. Gives a hotter spark and is more efficient than any other box type coil manufactured. It is encased in an oak box. The internal construction is of transformer type and is in every sense fully guaranteed.

Furnished for one, two and four cylinder engines.

No. 14-A-84. Jump Spark Coil for 1 Cylinder Engine.....$ 4.75
No. 14-A-85. Jump Spark Coil for 2 Cylinder Engine..... 9.00
No. 14-A-86. Jump Spark Coil for 4 Cylinder Engine..... 18.00

SPARK PLUGS

An important feature in connection with the successful operation of gasoline engines using Jump Spark Coils is the Spark Plug. A few features of this Spark Plug are sure fire, long life and platinum points. This Plug is the highest type and is suitable for use in automobiles, launches or stationary engines. Each Plug fully guaranteed. Furnished with ½ inch standard pipe thread.

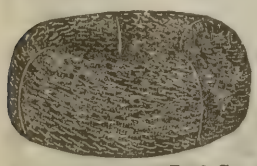
No. 14-A-87. Porcelain Spark Plug. Price, each $0.57

No. 14-A-88. Mica Spark Plug. Price, each. .80

RUBBER COVERED WIRE

Rubber covered, solid conductor copper wire, single braid. The wires are braided with a standard cotton yarn, the braid being thoroughly saturated with pure wax compound, having a high melting point, and are smoothly and evenly finished. Prices quoted are subject to market changes.

	B. & S. Gauge	Price per 1,000 ft.	Price per 100 ft.
No. 14-A-89	14	$ 7.50	$ 75
No. 14-A-90	12	10.00	1.00
No. 14-A-91	10	12.00	1.20
No. 14-A-92	8	18.00	1.80
No. 14-A-93	6	28.00	2.80



LAMP CORD NATIONAL CODE STANDARD

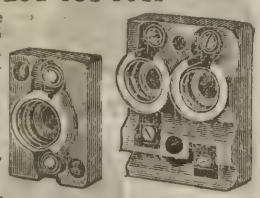
Cotton covered. Composed of two twisted conductors, and used for drop lights, fans, etc.

	B. & S. Gauge	Price per 1,000 ft.	Price per 100 ft.
No. 14-A-94	20	$9.68	$1.06
No. 14-A-95	18	11.35	1.25
No. 14-A-96	16	14.43	1.59

SILK COVERED LAMP CORD

	B. & S. Gauge	Price per 1,000 ft.	Price per 100 ft.
No. 14-A-97	18	$18.48	$2.03
No. 14-A-98	16	22.14	2.44

EDISON PLUG CUT-OUTS



Approved for use on circuits up to 125 volts. Fitted with screw contacts requiring no solder.

No. 14-A-99. 30 Amp., Single-Pole, Main Line Edison cut-out $0.07

No. 14-A-100. 30 Amp., Double-Pole, Single Branch Edison Plug Cut-out .12

No. 14-A-101. 30 Amp., Double Pole, Double Branch Edison Plug Cut-out ..... .24

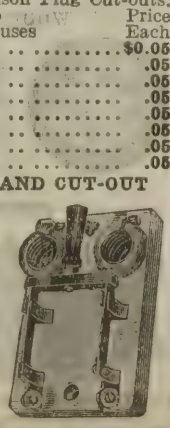
No. 14-A-102. 30 Amp., 3-wire to 2-wire, Double Branch Edison Plug Cut-out ..... .25

EDISON FUSE PLUGS

Used in connection with Edison Plug Cut-outs.

	Amp Plug Fuses	Price Each
No. 14-A-103.	3	$0.05
No. 14-A-104.	6	.05
No. 14-A-105.	10	.05
No. 14-A-106.	12	.05
No. 14-A-107.	15	.05
No. 14-A-108.	20	.05
No. 14-A-109.	25	.05
No. 14-A-110.	30	.05

COMBINATION SWITCH AND CUT-OUT



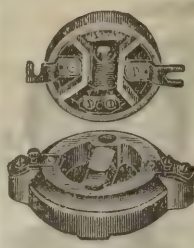
The National Board of Fire Underwriters requires that where a surface wire enters a building a main cut-off switch and also a main fuse be installed in order to be able to cut out all electric currents in the building by throwing the entrance switch in case of fire. They can also be used for motor switches.

The Edison Fuse Plugs up to 30 Amps. can be used in connection with this switch.

No. 14-A-111. 125 volt 25 Amp. Double Pole Combination Switch $0.60

No. 14-A-112. 250 volt 25 Amp. Double Pole Combination Switch ..... .65

No. 14-A-113. 250 volt 25 Amp. Triple Pole Combination Switch ..... .95



PORCELAIN CEILING ROSETTES

No. 14-A-114. Cleat style. Price, each. $0.10

No. 14-A-115. Ceiling Rosettes, concealed type. Price, each ..... .10

PORCELAIN CEILING BUTTONS

Self tying type. Price, each .$0.05

ATTACHMENT PLUGS

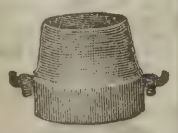
To be connected with lamp cord. Will fit any standard Edison base socket and any length of cord may be used to suit conditions. It is thereby possible to extend the light into otherwise inaccessible parts.

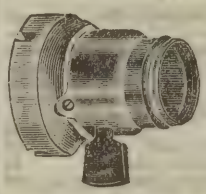
No. 14-A-116. Attachment plugs, fuseless, brass cap fuses. Price, each $0.15

No. 14-A-117. Porcelain cap attachment plugs, fuseless. Price, each ..... .15

PORCELAIN EDISON CLEAT RECEPTACLE

No. 14-A-118. Price, each $0.06





PORCELAIN BASE WALL SOCKETS

Brass cap and removable ring.

No. 14-A-119. Edison Key Wall Socket. Price $0.27

No. 14-A-120. Edison Keyless Wall Socket. Price $0.20

PORCELAIN WATERPROOF SOCKETS WITH HOOD

Porcelain socket fitted with 8 in. No. 14 B. & S. stranded rubber-covered wire. Extension edge of hood carries the drop away from the lamp and socket. Extra hole in porcelain in top allows extension by cord if desired.

No. 14-A-121. Price, each $0.30

PORCELAIN WATERPROOF SOCKETS

Plain, without hood. Each socket fitted with 8 in. No. 14 B. & S. stranded rubber-covered wire.

No. 14-A-122. Price, each $0.11

EDISON BASE STANDARD SOCKETS

Polished brass shell fiber lined. National Code standard.

No. 14-A-123. Edison Key Socket. Price, each .. $0.19

No. 14-A-124. Edison Keyless Socket. Price, each $0.18

HUBBELL PULL SOCKET

The strongest and most durable Pull Socket manufactured. These sockets can be used in any place where an ordinary socket is used and are especially desirable on portables and where chandeliers are too high to be easily reached. Pull Sockets will apeal to the user.

No. 14-A-125. Edison base pull socket with chain 8 in. long. Price, each $0.37

PENDANT SWITCH

Used for controlling Electroliers, Ceiling Clusters and other fixtures that are out of reach and not connected with wall switch. This switch is attached by lamp cord to the fixture and current is shut off and on by pushing button. Not suitable for over 125 volts.

No. 14-A-126. 5 Amp. Price, each $0.30

No. 14-A-127. 10 Amp. Price, each $0.48

RECEPTACLE PLUG CLUSTERS

Can be used in connection with Edison base sockets. We furnish Clusters in 2, 3 and 4 lights.

No. 14-A-128. 2-light Cluster. Price, each $0.70

No. 14-A-129. 3-light Cluster. Price, each $0.92

No. 14-A-130. 4-light Cluster. Price, each $1.12

INDICATING SNAP SWITCH

This style of switch is used in connection with electric lighting work.

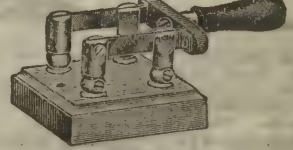
No. 14-A-131. 5 Amp. Single Pole 220-volt Indicating Snap Switch ... $0.30

No. 14-A-132. 10 Amp. Double Pole 220-volt Indicating Snap Switch ... $0.38

No. 14-A-133. 20 Amp. Double Pole 220-volt Indicating Snap Switch ... $0.70

No. 14-A-134. 30 Amp. Double Pole 220-volt Indicating Snap Switch ... $1.00

BABY KNIFE SWITCHES



Porcelain base, polished blade, black lacquered handle.

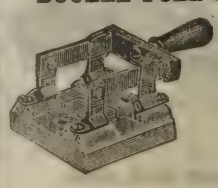
No. 14-A-135. 15 Amp. Single Pole Single Throw. Price, each $0.20

No. 14-A-136. 25 Amp. Single Pole Single Throw. Price, each $0.25

No. 14-A-137. 15 Amp. Single Pole Double Throw. Price, each $0.32

No. 14-A-138. 25 Amp. Single Pole Double Throw. Price, each $0.35

DOUBLE POLE KNIFE SWITCHES



Porcelain base, 125 volt, polished blade, black lacquered handle.

No. 14-A-139. 15 Amp. Double Pole Single Throw. Price, each $0.25

No. 14-A-145. 25 Amp. Double Pole Single Throw. Price, each $0.30

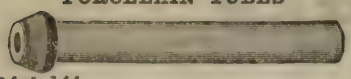
No. 14-A-141. 15 Amp. Double Pole Double Throw. Price, each $0.42

No. 14-A-142 25 Amp. Double Pole Double Throw. Price, each $0.50

KNIFE SWITCH

No. 14-A-143. Slate Base. 25 Amp. Double Pole Single Throw 250 volt. Price, each .. $0.40

PORCELAIN TUBES



No. 14-A-144.

Length inches under head	Size of Hole 5/16" For No. 12 & 14 Rub'r Cov'd Wire	Size of Hole 3/8" For No. 6, 8 & 10 Rub'r Cov'd Wire
	Price per 100	
1½	$0.38	$0.41
2	.41	.43
2½	.43	.47
3	.47	.55
4	.51	.59
5	.92	1.08
6	1.17	1.40
8	2.16	2.52

TWO WIRE PORCELAIN CLEAT

For electric wiring purposes.

No. 14-A-145. For Nos. 12 and 14 B. & S. Rubber Covered Wire. Price, per 100...$1.21

No. 14-A-146. For Nos. 6 to 10 B. & S. Rubber Covered wire. Price, per 100 .....$1.70

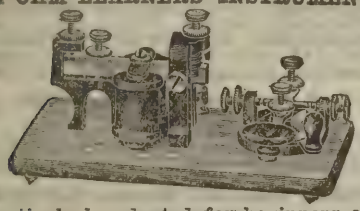
SPLIT PORCELAIN KNOBS

Saves the time, wire and labor of tying, National Code Standard 1" from groove to base.

No. 14-A-147. For No. 10 B. & S. Wire and smaller. Price, per 100 .....$1.66

No. 14-A-148. For Nos. 4 and 8 B. & S. Wire. Price, per 100.....$1.75

LEARNERS' TELEGRAPH OUTFIT
4 OHM LEARNERS' INSTRUMENT



Particularly adapted for beginners or on short private lines. It is well made and has the same adjustments as the higher priced instruments used by the large telegraph companies.

It is mounted on a highly polished oak base. Brass work is polished and lacquered. It gives a loud, clear sound. The sounder has covered magnets wound to four ohms resistance. This is the best made Learners' Outfit on the market.

No. 14-A-149. Complete with Instruction Book containing Morse Code Alphabet, one dry battery and connecting wires..$1.48

DOUBLE LEARNERS' TELEGRAPH OUTFIT

This outfit consists of two 4 Ohm instruments, four dry batteries, 300 feet of insulated copper wire and two instruction books.

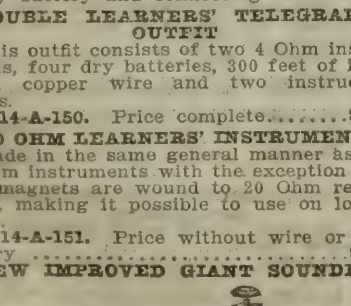
No. 14-A-150. Price complete.....$3.90

20 OHM LEARNERS' INSTRUMENT

Made in the same general manner as our 4 Ohm instruments with the exception that the magnets are wound to 20 Ohm resistance, making it possible to use on longer lines.

No. 14-A-151. Price without wire or battery $1.65

NEW IMPROVED GIANT SOUNDER

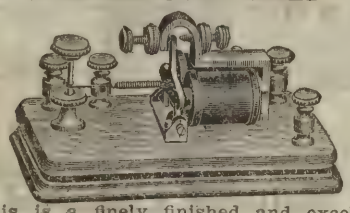


This instrument is furnished with aluminum lever. It is unequaled for quick action, loudness and clear tone. Its proportions are scientifically correct. One cell of ordinary Crowfoot battery will operate this instrument, producing a sound louder and clearer than can be obtained from any other sounder with two cells of battery.

No. 14-A-152. 4 Ohm new Improved Giant Sounder. Price $1.60

No. 14-A-153. 20 Ohm new Improved Giant Sounder. Price $1.85

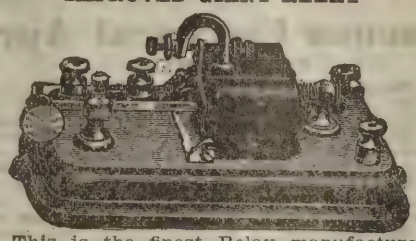
STANDARD PONY RELAY



This is a finely finished and excellent relay. Its use will enable work on private lines of 1 to 100 miles in length, doing it with perfect ease, in many cases where main line sounders fail to give satisfaction. It requires much less battery power to operate it than does a main line sounder of similar resistance. Finely finished and mounted on polished mahogany base with ornamental metallic sub-base.

No. 14-A-154. 4 Ohm Pony Relay....$1.75
No. 14-A-155. 20 Ohm Pony Relay.... 1.90
No. 14-A-156. 50 Ohm Pony Relay.... 2.25
No. 14-A-157. 75 Ohm Pony Relay.... 2.35

IMPROVED GIANT RELAY



This is the finest Relay manufactured, and guaranteed to give the very best satisfaction under all conditions. Wound with silk covered wire. Polished rubber covered coils. Highly polished mahogany base mounted on an ornamental sub-base with extension adjustment.

In addition to the excellent merit of these relays in all the usual details of construction and finish, the special advantages consist in the armature and lever, which is all struck from a single piece of finest iron; the improved form of trunnion seat and the improved magnet adjustment, making it the finest type of Relay ever constructed.

No. 14-A-158. 100 Ohm Giant Relay..$4.10
No. 14-A-159. 150 Ohm Giant Relay.. 4.25
No. 14-A-160. 200 Ohm Giant Relay.. 4.50
No. 14-A-161. 300 Ohm Giant Relay.. 4.65

PERFECTION STEEL LEVER KEYS

Legless.

The lever and trunnions are made of one piece of fine wrought steel. The common defect of loose trunnions is avoided. The spring is obtained without much less weight of metal. The solid trunnions give a perfect bearing and with the use of hardened Platina Points sticking is absolutely prevented.

No. 14-A-162. Price, each.....$1.10

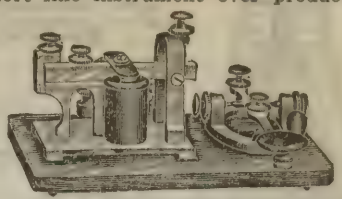
PERFECTION STEEL LEVER KEYS WITH LEGS

This instrument is made exactly the same as our Legless Key with the exception that it is made with legs which go through the table. These legs being threaded and fitted with thumb bolts it can be firmly attached.

No. 14-A-163. Price, each.....$1.20

COMBINATION GIANT SOUNDER AND STEEL LEVER KEY

Consists of a standard Giant Sounder with aluminum lever. Finely finished with rubber covered coils, silk covered wire mounted on polished base with steel lever key. The handsomest and most perfect set of short line instrument ever produced.



No. 14-A-164. 4 Ohm Combination Set..$3.00
No. 14-A-165. 20 Ohm Combination Set. 3.25

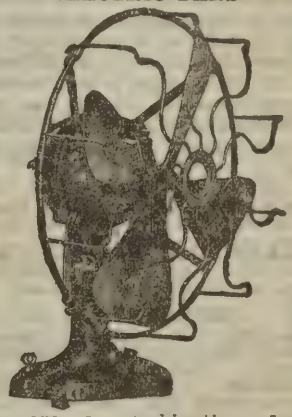
HOME MEDICAL BATTERY

This is a strictly high grade instrument, designed to meet the requirements of physicians or for home use. It comes complete in a handsome polished oak box with nickel trimmings. Operates with a dry battery. It consists of a coil giving both galvanic and Faradic currents. One nickel foot plate, two nickel plated hand electrodes, two sponge electrodes, two wood handles, silk cords, dry batteries, and a special instruction book entitled "Medical Electricity at Home."

Every outfit guaranteed to give perfect satisfaction. We wish to impress upon your mind that this outfit is as effective as any of the higher priced outfits.

No. 14-A-166. Price.....$3.10

ELECTRIC FANS



These are a combination desk and bracket fan; that is, they are adjustable so that they may be set on a desk or attached to the wall, having an adjustable bracket which permits them to be set at any angle.

Each fan is perfectly balanced before being placed on the motor, thus insuring quiet and smooth operation under all conditions and under all speeds.

The case which covers the working parts of the motor and the base are finished in black enamel. The fan and guards are lacquered brass. All bearings are genuine bronze and fitted with compression grease cups.

These fans are arranged to give four speeds with a range from 1,200 rpm. on the slow speed to 2,000 rpm. on the high speed. Our 12-inch fan will circulate more air than most of the larger fans on the market.

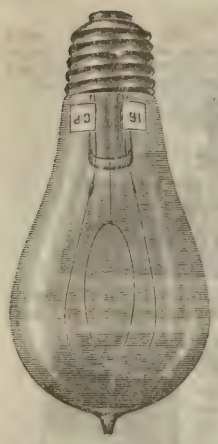
Prices do not include cord and attachment plug.

DIRECT CURRENT FANS

No. 14-A-167. Size of blade 12 inches, 110 volt. Price $12.00
No. 14-A-168. Size of blade 16 inches, 110 volt. Price $14.50
No. 14-A-169. Size of blade 12 inches, 220 volt. Price $13.00
No. 14-A-170. Size of blade 16 inches, 220 volt. Price $15.50

ALTERNATING CURRENT FANS

No. 14-A-171. Size of blade 12 inches, 110 volt, 60 cycle. Price.....$13.00
No. 14-A-172. Size of blade 12 inches, 220 volt, 60 cycle. Price.....$14.00
No. 14-A-173. 8-foot cord and attachment plug. Price $0.50



Incandescent Lamps

Brand New and Perfect, Representing America's Best Makes

Our enormous sales in Incandescent Lamps has placed us in a position to make the most favorable contracts with the largest lamp manufacturers in America and enables us to offer lamps that are perfect and in every way guaranteed at prices that mean economy to you.

When ordering be sure and state voltage and candle power required.

Clear Incandescent Lamps

Edison Base

	Voltage	Candle Power.	Price, case lots of 200 lamps.	Price, less than case lots.
No. 14-A-174	100 to 120	16	**$0.10**	**$0.12**
No. 14-A-175	104 to 110	8	.10	.12
No. 14-A-176	101	8	.08	.10
No. 14-A-177	102	8	.07½	.09½
No. 14-A-178	103	8	.09	.11
No. 14-A-179	200 to 250	16	.13	.15
No. 14-A-180	200 to 250	8	.12	.14
No. 14-A-181	130	10	.07	.09
No. 14-A-182	211	10	.09	.11
No. 14-A-183	220	10	.11	.13

Amber Natural Colored Lamps

Edison Base

THIS IS A SPECIAL LOT OF GENERAL ELECTRIC INCANDESCENT LAMPS which we are offering at very special prices subject to stock on hand at the time of receiving order. We strongly advise that you anticipate your wants as it is not likely that we will be able to furnish lamps of this kind at such low prices when this lot is gone.

	Quantity on hand.	Voltage.	Candle power.	Price case lots of 200 lamps, each.	Price less than case lots, each.
No. 14-A-184	13,000	104	8	**$0.09**	**$0.10**

Green Natural Colored Lamps

Edison Base

GENERAL ELECTRIC MAKE SAME AS LOT NO. 14-A-184.

	Quantity on hand.	Voltage.	Candle power.	Price each
No. 14-A-185	400	104	8	**$0.18**

Miscellaneous Electrical Apparatus

In connection with our purchases of Expositions and large Industrial Plants, we secure immense quantities of electrical, as well as other material. We list herewith a number of special bargains, all of which are offered subject to stock on hand at the time of receiving orders. This list does not in any sense cover our entire stock. Send us a list of your requirements when in the market for anything electrical.

ARC LAMPS.

No. 14-A-186. Helios Arc Lamps, Brand New, alternating current, 125 to 133 cycles, open type, guaranteed perfect. Price, each.....**$4.00**

No. 14-A-187. 5 A. B. Arc Lamps, direct current, 110 volts, enclosed type, second-hand, in perfect operative condition. Price, each....**$4.00**

INSTRUMENTS.

No. 14-A-188. 8 Stanley Watt Meters, Brand New, direct reading, 25 cycle, alternating, guaranteed perfect. Price, each.....**$50.00**

No. 14-A-189. 1 Thomson Recording Watt Meter, second-hand, type "M," class 96, form S. A. Price.....**$5.00**

No. 14-A-190. 1 Thomson Recording Watt Meter, second-hand, type "M," class 100, form D. & M. Price.....**$5.00**

No. 14-A-191. 3 Westinghouse Am-meters, second-hand, from 0 to 200. Price, each..**$10.00**

No. 14-A-192. 1 Weston Am-meter, second-hand, D. C., 0 to 1200 Amp. Price.....**$10.00**

No. 14-A-193. 1 Westinghouse Volt Meter D. C., second-hand, 0 to 600 volts. Price....**$12.00**

No. 14-A-194. 1 Am-meter D. C., second-hand, from 0 to 400. Price.....**$7.50**

No. 14-A-195. 1 Am-meter D. C., second-hand, from 0 to 200. Price.....**$7.50**

No. 14-A-196. 1 Benton & McDonald D. C., Am-meter, second-hand, 0 to 150 Price...**$8.50**

No. 14-A-197. 3 Keystone Am-meters A. C., second-hand, 0 to 1000, without shunts. Price **$7.50**

No. 14-A-198. 1 Keystone Am-meter A. C., second-hand, 0 to 200. Price.....**$7.50**

No. 14-A-199. 1 Stanley Am-meter A. C., second-hand, 0 to 40. Price.....**$8.50**

No. 14-A-200. 1 Stanley Static Ground Detector, second-hand, 2400 volts. Price....**$15.00**

No. 14-A-201. 1 Thomson-Houston Current Indicator, second-hand, 0 to 80 Amp., D. C., Price.....**$2.50**

No. 14-A-202. 2 Wagner Watt Meters A. C., second-hand, 25 cycles, reading from 0 to 1600 K. W. Price.....**$15.00**

No. 14-A-203. 1 Westinghouse Power Factor Meter, second-hand, 1200 Amp., 6,000 volts, 3,000 alternations.....**$45.00**

No. 14-A-204. 1 Slattery Induction Volt Meter, second-hand, from 0 to 55 volts. Price.....**$3.50**

No. 14-A-205. 1 Thomson Portable Alternating Am-meter, Brand New, 0 to 10 Amp. Price.....**$15.00**

No. 14-A-206. 1 Thomson Portable Alternating Am-meter, Brand New, 0 to 5 Amp. Price..**$15.00**

TRANSFORMERS.

No. 14-A-207. 1 Westinghouse, 15 K. W., Oil Type Transformer, second-hand, 440 to 220 and 110 volt. Price.....**$75.00**

No. 14-A-208. 4 Westinghouse Transformers, second-hand, 10 K. W., oil type, 440 to 220 and 110 volt. Price, each.....**$60.00**

No. 14-A-209. 2 Westinghouse Transformers, second-hand, 5 K. W., oil type, 440 to 110 volt, Price, each.....**$40.00**

No. 14-A-210. 1 Metallic Circuit Telephone Switchboard, oak cabinet, second-hand, 100 drops. Price.....**$40.00**

No. 14-A-211. 1 Wollensack Company Watchman's Register, 16 station, second-hand.....**$20.50**

No. 14-A-212. 1–12 drop, oak frame Annunciator, second-hand.....**$3.00**

No. 14-A-213. 500 Opalescent Shades for Miniature lamps, second-hand. Price, each.....**$0.05**

No. 14-A-214. 100 Assorted Shades for 2¼ inch Holders, second-hand. Price, each.....**$0.10**

No. 14-A-215. 8 Reverse Current Relays, second-hand. Price, each.....**$3.00**

No. 14-A-216. 1–25 line Telephone Terminal Post Head, second-hand.....**$5.00**

No. 14-A-217. 21 Bryant-Cleveland Arc Cutouts, second-hand. Each.....**$0.50**

No. 14-A-218. 200 Single Pole Slate Base Fuse Blocks, 15 to 30 Amp., 2,500 volt, spring clips, without fuse, second-hand. Price, each.**$0.20**

No. 14-A-219. 100 Single Pole Slate Base Fuse Blocks, 50 to 100 Amp., 250 volt, spring clip, second-hand. Each.....**$0.20**

NOARK FUSES.

Brand New.

No. 14-A-220. Screw clamp, type "A", 155 Amp., 500 volts, 6¾ inches long from center to center. Price, each.....**$0.10**

No. 14-A-221. 50, 60 to 150 Amp., assorted, 500 volts, 7½ inches long from center to center. Price, each.....**$0.15**

No. 14-A-222. 12, 2 to 10 Amp., assorted, 500 volts, 5⅞ inches long from center to center. Price, each.....**$0.05**

No. 14-A-223. 3, 200 Amp., 500 volt, 8 inches long from center to center. Price, each.....**$0.15**

No. 14-A-224. 100, 60 to 100 Amp., assorted, 220 volts, 5 inches long from center to center. Price, each.....**$0.10**

No. 14-A-225. 8, 150 Amp., 220 volt, 5½ inches long from center to center. Price, each.....**$0.15**

No. 14-A-226. 5, 175 Amp., 220 volts, 7 inches long from center to center. Price, each.....**$0.15**

NOARK SPRING CLIP FUSES.

Type "C".

Brand New.

No. 14-A-227. 300, 60 amp., 220 volts, 4 inches long from center to center. Price, each.....**$0.12**

No. 14-A-228. 300, 78 Amp., 220 volts, 4 inches long from center to center. Price, each.**$0.12**

NOARK DOUBLE KNIFE CONTACT FUSES.

Type "D".

Brand New.

No. 14-A-229. 10, 200 Amp., 220 volt, 5 inches long from center to center. Price, each.....**$0.20**

No. 14-A-230. 50, 200 Amp., 500 volt Square Terminal to fit Type "C" Noark Fuse Blocks. Price, each.....**$0.25**

D. & W. SPRING CLIP FUSES.

Type "C".

Brand New.

No. 14-A-231. 100, 3 Amp., 500 volt, 4½ inches long from center to center. Price, each.....**$0.05**

No. 14-A-232. 25, 4 to 10 Amp., assorted, 500 volt, 4⅝ inches long from center to center. Price, each.....**$0.05**

D. & W. SCREW CLAMP FUSES.

Type "A".

Brand New.

No. 14-A-233. 12, 25 Amp., 500 volt, 6½ inches long from center to center.....**$0.10**

GENERAL ELECTRIC SPRING CLIP FUSES.

Brand New.

No. 14-A-234. 500, 3 Amp., 600 volts, 3 inches long from center to center.....**$0.04**

No. 14-A-235. 20, 10 Amp., 500 volts, 5½ inches long from center to center.....**$0.04**

No. 14-A-236. 15, 20 Amp., 500 volt, 5½ inches long from center to center.....**$0.04**

No. 14-A-237. 12, 12 Amp., 500 volt, 5½ inches long from center to center.....**$0.04**

No. 14-A-238. 50, 30 Amp., 2,500 volt, Expulsion Fuses, G. E. No. 51296.....**$0.25**

No. 14-A-239. 200 Single Pole Slate Base Fuse Blocks, 5 to 30 Amp., spring clip without fuse, second-hand. Price.....**$0.20**

No. 14-A-240. 100 Single Pole Slate Base Fuse Blocks, 50 to 100 Amp., spring clip without fuse, second-hand. Price.....**$0.20**

No. 14-A-241. 900 T. H. to Edison Base Adapters. Price.....**$0.03**

No. 14-A-242. 28 Fletcher Spreader Brackets. Each.....**$0.15**

No. 14-A-243. 50 No. 1038 Fletcher Brackets. Price.....**$0.10**

No. 14-A-244. 100 No. 1006 Fletcher Brackets. Price.....**$0.10**

SINGLE THROW KNIFE SWITCHES.

Second-Hand.

No. 14-A-245. 4, 600 to 625 Amp., 250 volt, double pole. Each.....**$5.50**

No. 14-A-246. 2, 800 Amp., 500 volt, triple pole. Each.....**$10.50**

No. 14-A-247. 2, 600 Amp., 500 volt, triple pole. Each.....**$9.00**

No. 14-A-248. 2, 200 Amp., 500 volt, triple pole. Each.....**$5.00**

No. 14-A-249. 5, 100 Amp., 500 volt, triple pole. Each.....**$2.00**

No. 14-A-250. 1, 300 Amp., 250 volt, with fuse block, triple pole. Each.....**$10.00**

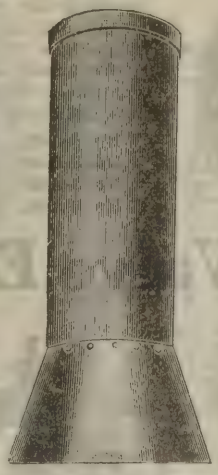
No. 14-A-251. 1, 150 Amp., 250 volt, double pole fused. Each.....**$1.50**

No. 14-A-252. 1, 100 Amp., 250 volt, double pole fused. Each.....**$1.00**

No. 14-A-253. 3, 50 Amp., 250 volt, double pole fused. Each.....**$0.75**

SMOKE STACKS

Send us your Specifications for any work you may require in this line. We can make Stacks of any size or in other gauges than described. Our prices are invariably low.



We Guarantee both Material and Workmanship of all Smoke Stacks and Connections.

We have a finely equipped shop for the purpose of working sheet iron. We can make up Smoke Stacks, Boiler Breechings, Smoke Boxes and Extensions in any size and shape. With our unusual facilities we can save you money on any purchase that you may make in this line.

In connection with our purchases of complete power plants, we generally have on hand a large number of fine second-hand stacks. It is possible we have the size you want; if so, we can show you a big saving. Any second-hand stack that we furnish is guaranteed to be in good sound condition; the metal is not rusted or otherwise corroded. All stacks are painted with a special black mineral paint that protects the metal from the weather and prevents corrosion.

We can ship stacks knocked down. The prices which we quote are for stacks shipped made up in sections. However, if shipped knocked down you may deduct 5% from these prices. The freight rate on stacks shipped knocked down is very much less than when made up and shipped in sections. By the term "knocked down" we mean that the sheets are formed, punched and already to be riveted together. All holes are properly spaced and the stack can be very easily put together on the job. We furnish the necessary rivets. It does not require an expert to rivet the stack. Any one who is handy with tools can do it.

Our quotations on stacks are for the plain round stack, the same diameter at the base as at the top. Where there is a tapering, round, or oval base or an umbrella top required there would be an extra charge as noted below. Our quotations include the guy and top bands.

Guy Wire is not included

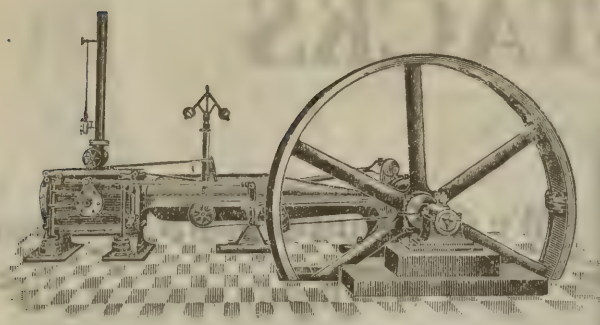
Prices on Smoke Stacks

	Diam. of stack, in.	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	44	46	48
No. 12-A-1	Price per foot 16 gauge iron	$0.40	$0.50	$0.56	$0.66	$0.70	$0.82	$0.84	$0.90	$0.98	$1.05	$1.10	$1.25								
No. 12-A-2	Price per foot 14 gauge iron	0.54	0.55	0.63	0.75	0.78	0.87	0.90	1.02	1.15	1.20	1.25	1.35								
No. 12-A-3	Price per foot 12 gauge iron	0.67	0.68	0 75	0.85	0.93	0.97	1.10	1.25	1.30	1.50	1.55	1.60	$1.65	$1.75	$1.75	$1.90	$2.05	$2.15	$2.35	$2.60
No. 12-A-4	Price per foot 10 gauge iron													1.70	1.85	1.95	2.20	2.45	2.55	2.75	2.85
No. 12-A-5	Price per foot 8 gauge iron													2.05	2.25	2.45	2.65	2.85	2.90	3.00	3.10
No. 12-A-6	Damper in stack, extra	1.80	2.00	2.15	2.15	2.15	2.75	2.75	2.75	3.00	3.00	3.00	3.50	3.50	3.50	4.00	4.00	5.00	5.00	5.50	6.00
No. 12-A-7	For Round or Oval Bases	1.50	1.65	1.90	2.25	2.50	2.50	2.50	3.00	3.45	3.75	3.75	4.00	5.00	5.50	5.75	6.00	7.00	7.50	8.25	8.50
No. 12-A-8	For Umbrella Top	1.50	1.65	1.90	2.25	2.50	2.50	2.70	3.00	3.45	3.75	3.75	4.00	5.00	5.50	5.75	6.00	7.00	7.50	8.25	8.50

Galvanized Wire Rope for Guys

No. 12-A- 9	Price per foot on Guy Wire, up to 24 inch	$0.01
No. 12-A-10	Price per foot on Guy Wire, larger sizes	.02

Note:—In ordering round and oval bases, always give the outside measurements of the collar over which they fit; if for round bases give the diameter; if for oval base give the outside measurements of both the length and width of the oval through the center.



Corliss Engines

We have on hand at our warehouse, ready for immediate shipment, the following strictly high grade Corliss Engines, which have been very carefully gone over in our shop and trimmed up in a workmanlike manner. They are neatly painted and will put up a first class appearance.

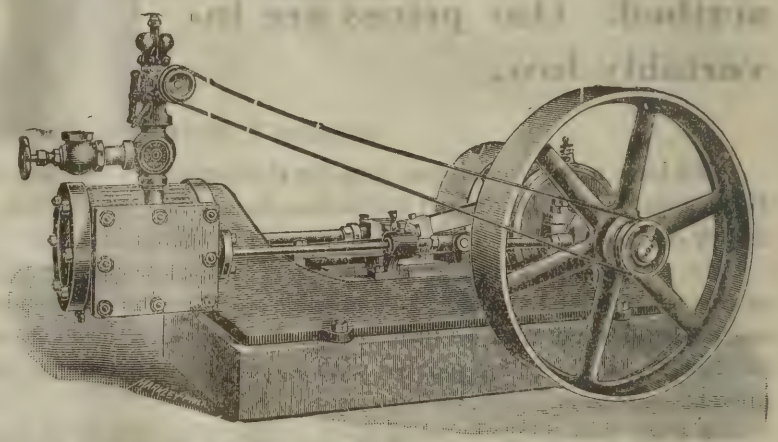
We furnish each complete with all trimmings such as lubricator of standard type, throttle valve, all necessary oil cups, crank pin oiler and full set of foundation bolts, and blue print for settings.

No. 8-A-21. One 12x36″ R. H. Hamilton Corliss Engine, 9′x20″ Wheel.
No. 8-A-22. One 16x36′ R. H. Wiesen-Velter Corliss Engine, 12′x25″ Wheel.
No. 8-A-23. One 16x42″ L. H. Bullock Corliss Engine, 12′x25″ Wheel.
No. 8-A-24. One 28x48″ R. H. Bates' Corliss Engine, 18′x50″ Wheel.

Slide Valve Engines

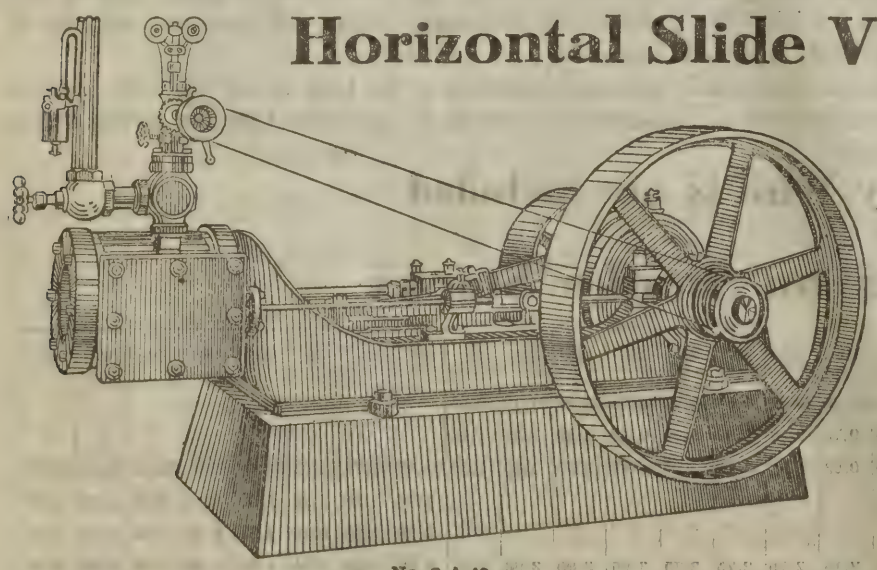
In the following list will be found many of the prominent makes of slide valve engines, all of which have been properly gone over and are now ready for immediate shipment. Each engine is furnished complete with a standard governor, governor belt, throttle valve, lubricator, all necessary oil cups, drip valves, etc. In most cases these fittings are strictly brand new.

No. 8-A-25. Four 4x 5″ Vertical O. & S. Engines.
No. 8-A-26. Five 5x 6″ Horizontal O. S. Engines.
No. 8-A-27. Three 6x 6″ Vertical O. S. Engines.
No. 8-A-28. Two 7x10″ Horizontal Side Crank Atlas.
No. 8-A-29. One 7x 9″ Vertical N. Y. Safety.
No. 8-A-30. Two 7x10″ Horizontal Erie City.
No. 8-A-31. One 8x10″ Side Crank Erie City.
No. 8-A-32. One 8x12″ Horizontal C. C. Richards.
No. 8-A-33. One 9x12″ Horizontal C. C. Richards.
No. 8-A-34. One 9x12″ Horizontal C. C. Erie City.
No. 8-A-35. One 9x14″ Horizontal Side Crank Atlas
No. 8-A-36. One 10x12″ Horizontal C. C. Atlas.
No. 8-A-37. One 10x12″ Horizontal C. C. Erie City.
No. 8-A-38. One 10x12″ Vertical C. C. New York Safety.
No. 8-A-39. One 11x14″ Horizontal Side Crank Atlas.
No. 8-A-40. One 11x16″ Horizontal Side Crank Atlas.
No. 8-A-41. One 12x16″ Horizontal C. C. Nagle.
No. 8-A-42. One 12x16″ Self contained Slide Crank, slide valve, Brownell.
No. 8-A-43. One 13x18″ Horizontal Side Crank Nagle.
No. 8-A-44. One 14x18″ Side Crank Self-contained Brownell.
No. 8-A-45. One 14x20″ Side Crank Heavy Duty Atlas.
No. 8-A-46. One 14x24″ Heavy Duty Side Crank Erie City.
No. 8-A-47. One 16x24″ Heavy Duty Side Crank Atlas.
No. 8-A-48. One 16x24″ Side Crank Fraser & Chalmers.
No. 8-A-49. One 18x24″ Heavy Duty Side Crank Atlas.



The above engines are fitted with standard wheels, or pulleys as furnished by the manufacturers, but from our large stock of band wheels and pulleys we are in a position to equip the engines with almost any size wheel desired.

Horizontal Slide Valve Engines



No. 8-A-49.

Brand New.

These are of the highest grade, center crank, single slide valve type. A glance at the outlines will show rigidity, strength, beauty of design and economy of floor space. Metal is carefully distributed so there is no useless weight. The rods are made of steel, the crank shaft of solid hammered steel, the brasses of phosphor bronze, and the bearings of the best babbitt. The fittings and trimmings furnished with these engines are of the very best quality. Our price includes with the engine the following trimmings:

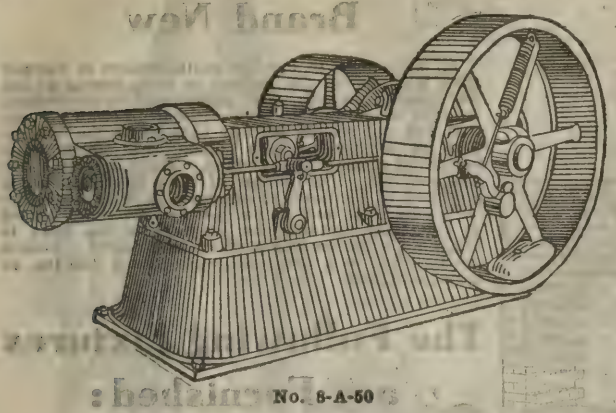
Governor, governor pulley, fly wheel, four (4) oil cups, sight feed indicator, throttle valves and nipples. This does not include steam exhaust pipe or foundation rods. Engine will be shipped from our factory in Pennsylvania.

We make five sizes as follows:

Table of Dimensions and Price List.

Horse-power as usually rated	6	8	10	12	16
Size of Cylinder, inches	5x7½	6x7½	7x10	7½x10	8x10
Diameter of Steam-pipe, inches	1	1¼	1½	1½	1½
Diameter of Exhaust-pipe, inches	1¼	1½	2	2	2
Diameter of Shaft, inches	2¾	2¾	2 11/16	2 11/16	2 11/16
Diameter and Face of Wheel, inches	24x6	24x6	30x6½	30x6½	36x7½
Diameter and Face of Pulley, inches	14x7	14x7	16x7½	18x7½	18x7½
Revolutions per minute	250	225	200	180	180
Floor Space required for base, inches	14½x47½	14½x47½	16x57	16x57	16x57
Approximate Shipping Weight, pounds	700	800	1200	1300	1500
Price	$100.00	$110.00	$140.00	$150.00	$155.00

Horizontal Automatic Engines—Brand New



No. 8-A-50

PRICES, SIZES AND SPECIFICATIONS OF

CLIMAX HORIZONTAL AUTOMATIC ENGINES

Horse Power Standard Rating	CYLINDER Diameter	CYLINDER Stroke	Revolutions	Automatic Pulley Diameter	Automatic Pulley Face	Belt Pulleys Diameter	Belt Pulleys Face	PIPES Steam	PIPES Exhaust	FLOOR SPACE Width	FLOOR SPACE Length	Weight	Price
8	5½	7	275	26	6½	16	8½	1¼	2	20	46	1,275	$135.00
10	6	7	275	26	6½	16	8½	1½	2	20	46	1,300	153.75
12	7	7	275	30	7½	16	10½	2	2½	20	46	1,430	167.00
16	7	8	275	30	7½	20	10½	2	2½	23	53	1,820	205.00
20	8	8	275	36	7½	20	10½	2½	3	23	53	2,050	227.00
25	9	8	275	35	7½	24	10½	2½	3	23	53	2,200	256.75
30	8½	12	250	48	10½	24	12½	2½	3	32	78	4,425	330.50
40	9½	12	250	48	10½	25	14	3	3½	32	78	4,550	403.75
50	10½	12	250	48	12½	28	14	3½	4	32	78	4,700	455.50

Prices F. O. B. Our Factory in Michigan.

The distribution of metal in this frame is such that it is exceedingly strong and unyielding, having a broad flange base, well ribbed internally, to rest upon the foundation.

The cylinder and steam-chest are in one casting, and are bored at the same setting, insuring perfect alignment.

All wearing surfaces are large.

All parts interchangeable as far as consistent.

Perfect alignment of all parts.

Rated H. P. is based on initial steam pressure, 80 lbs. cutting off at ¼ stroke.

Additional Charge for Larger Belt Pulleys.

Before shipment every engine is thoroughly tested, under steam pressure with a full load, and is properly adjusted and ready to put in service as soon as necessary connections are made.

We furnish with each engine a complete set of nickel plated oil cups, sight feed lubricator, throttle valve, drain cocks, and wrenches. Will furnish foundation bolts if desired at slight additional expense.

Each engine is mounted on a suitable cast iron base, so very little foundation is necessary.

VERTICAL AUTOMATIC ENGINES—BRAND NEW

The Vertical Automatic Engine, here illustrated, is made from new patterns, combining many features that add to its simplicity, durability and economical performance. The frame is of such design as to combine beauty of outline and symmetrical shape with such distribution of metal, as to make it **Strong, Rigid and Unyielding** in every part. The top and bottom of each frame is "faced off" true in a lathe, and the main boxes are planed true. A majority of manufacturers of small engines do not do this, and it is essential to **Perfect Construction and Permanent Alignment.**

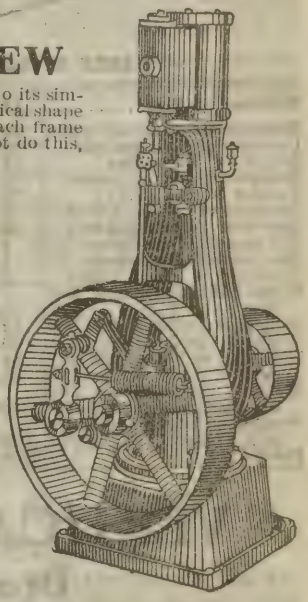
We recommend these these engines, both Horizontal and Vertical, for **Electric Lighting** or any kind of duty. They have been thoroughly tried, and have fully met all requirements.

No. 8-A-52

Horse Power	Cylinder Dia.	Cylinder Str'e	Revolu'n	Aut. Pul. Dia.	Aut. Pul. Face	Belt Pul Dia.	Belt Pul Face	Pipes Stm.	Pipes Ex't.	Fl'r Sp'ce Wd'h	Fl'r Sp'ce L'gth	Weight	Price
3	3⅜	3½	450	16	4½	10	4½	¾	1	13	13	315	$ 53.50
4	4	4½	375	20	5½	10	6½	1	1¼	15½	15½	500	63.50
5	4½	4½	375	20	5½	10	6½	1	1¼	15½	15½	520	71.00
6	5	6	300	24	5½	12	7½	1¼	1½	18½	18½	750	81.00
7	5½	6	300	24	5½	12	7½	1¼	1½	18½	18½	775	92.50
8	5½	7	275	26	6½	16	8½	1½	2	19¾	19¾	990	110.00
10	6	7	275	26	6½	16	8½	1½	2	19¾	19¾	1,050	135.00
12	7	7	275	30	7½	16	10½	2	2½	19¾	19¾	1,190	155.00
16	7	8	275	30	7½	20	10½	2	2½	22½	22½	1,475	189.00
20	8	8	275	35	7½	20	10½	2½	3	22½	22½	1,700	208.25
25	9	8	275	35	7½	24	10½	2½	3	22½	22½	1,900	246.25

Additional Charges for Larger Belt Pulleys.

Before shipment, every engine is thoroughly tested, under steam pressure with a full load, and is properly adjusted and ready to put in service as soon as steam connections are made. We furnish with each engine, a complete set of nickel plated oil cups, sight feed lubricator, throttle valve, drain cocks and wrenches. Will furnish foundation bolts if desired at slight additional expense. **Prices F. O. B. our factory in Michigan.**



No. 8-A-51

VERTICAL SLIDE VALVE ENGINES

BRAND NEW

The following engines are all of the Vertical, Centercrank, Slide-valve type, with throttling Governor. They are very modern in construction and design and are built of the highest grade of material. They are well constructed throughout—built very compactly along the most improved lines and are neatly painted and finished.

As to quality of workmanship, they are superior to many and excelled by none. Before shipment every engine undergoes a very critical test under steam and is very carefully adjusted so that it is ready to run the moment it is placed in position and given steam.

We consider these engines the most desirable for general purposes where small power is required. They are well proportioned throughout and designed to stand hard work and high speed.

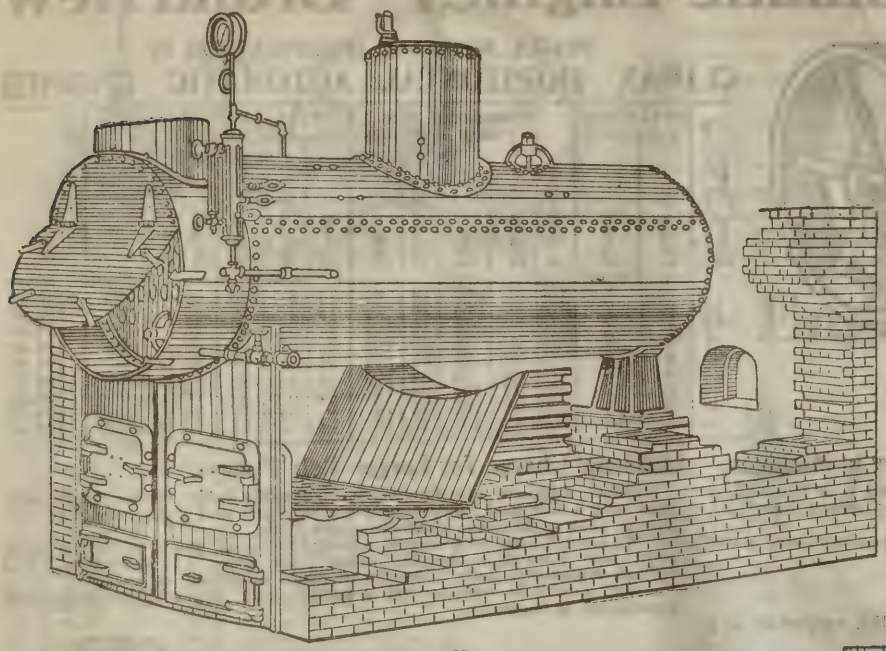
Each engine is furnished with governor, governor belt, governor pulley, oil cups, throttle valve, cylinder lubricator, belt pulley, fly wheel and is complete and ready to start. We do not furnish steam or exhaust pipe, nor do we furnish foundation bolts or rods.

Engine is shipped from our Factory in Pennsylvania.

Table of Dimensions and Price List.

Horse power as usually rated	1½	2	4	6	8	12	15
Size of Cylinder, inches	2½x3	3x5	4x5	5x7½	6x7½	7x8½	8x8½
Revolutions per minute	400	350	325	250	225	220	200
Diameter of Steam-pipe, inches	¾	¾	1	1	1	1¼	1¼
Diameter of Exhaust-pipe, inches	1	1	1	1¼	1½	1½	2
Diameter of Shaft, inches	1 1/16	1 1/16	1 11/16	2⅜	2⅜	2⅜	2⅜
Diameter and Face of Wheel, inches	13x3½	15x4	17x4½	24x6	24x6	30x6¾	36x7½
Diameter and Face of Pulley, inches	6x3	10x5	12x6	14x7	14x7	16x7½	18x7½
Height from Floor to Center of Shaft, inches	7	10	10	13	13	17½	19½
Height from Floor to Top of Cylinder, inches	28	43	43	54	54	67	69
Floor space occupied, inches square	13	17	17	20	20	24	24
Approximate weight, pounds	200	400	450	700	800	1,500	1,600
Price	$42.50	$59.00	$65.00	$90.00	$100.00	$150.00	$165.00

HORIZONTAL TUBULAR BOILERS



No. 8-A-1

Brand New

All plate used in our horizontal boilers is flanged steel, stamped by the makers as such, having 60,000 lbs. tensile strength, and guaranteed by the makers to turn down double cold without fracture. From this you can readily gain an idea as to the quality that we furnish in these boilers. All boilers have horizontal seams double riveted. Tubes are very carefully selected. The number of tubes in each boiler is governed by the most economical use of heating surface obtainable, and in no case are the tubes placed so close together that the strength of the head is decreased or the circulation of water impaired. Boilers are all tested to a hydrostatic pressure of 150 lbs. to the square inch.

The Following Fixtures are Furnished:

Front, complete with all castings, grates, grate bars, rear arch bars, ash door and frame, oval stack plate, binder bars and rods, safety valve, steam gauge, water gauge, gauge column attached, three gauge cocks, blow off valve, check valve, stop valve, whistle and pipe, smoke stack and guy rods. We do not furnish steam or exhaust pipe.

Shipments to be made from Factory in Pennsylvania.

TABLE OF DIMENSIONS FOR No. 8-A-1

Number of Size	18	19	20	22	24	25
Horse-power as usually rated	10	12	15	20	25	30
Diameter of shell, inches	30	30	36	36	42	44
Length of Tubes, feet	7	8	8	10	10	10
Diameter of Tubes, inches	3	3	3	3	3	3
Number of Tubes	20	20	22	26	38	44
Diameter of Dome, inches	18	18	20	20	22	22
Height of Dome, inches	20	20	22	22	24	24
Thickness of Shell, inches	1/4	1/4	1/4	1/4	5/16	5/16
Thickness of Dome-plate, in.	1/4	1/4	1/4	1/4	5/16	5/16
Thickness of Heads, inches	1/4	1/4	1/4	1/4	1/4	1/4
Square Feet of Heating Surface	130	160	191	270	380	445
Length of Grates, inches	32	32	35½	41½	41½	47½
Width of Grates, inches	30	30	36	36	42	44
Diameter of Stack, feet	14	14	16	16	20	20
Length of Stack, inches	28	28	28	35	35	35
Weight of Boiler and Britchen, pounds, about	1,600	1,900	2,600	3,000	4,100	4,600
Weight of Boiler and Half-arch Fixtures, lbs., about	3,100	3,400	4,300	5,000	6,600	7,500
Price	$150.00	$160.00	$205.00	$240.00	$330.00	$350.00

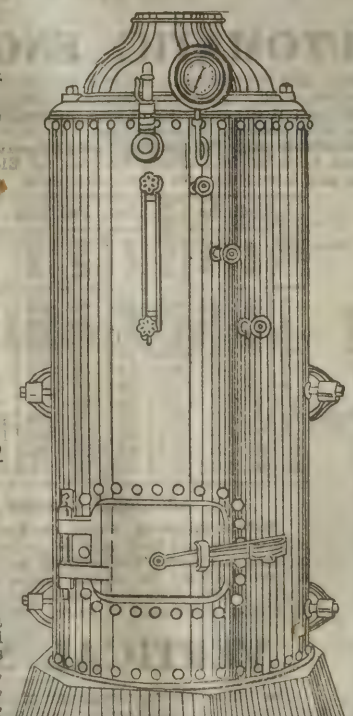
VERTICAL BOILERS

Brand New

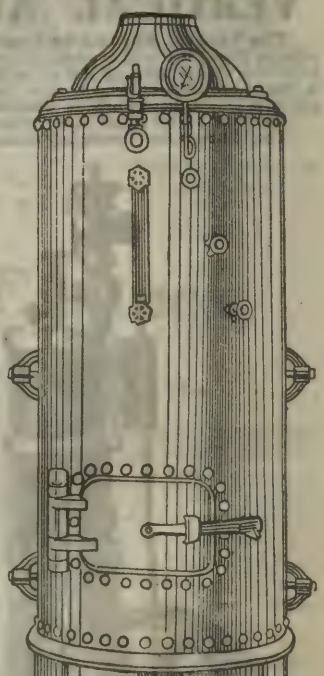
These boilers are made with flanged steel heads and shells of which have a tensile strength of 60,000 lbs. to the square inch. All sides are well braced with stay bolts, and all boilers 30" and upwards in diameter, have their seams double riveted. The fixtures furnished are base, grates, hood, steam gauge, glass water gauge, gauge cocks, either pop or safety lever valves, blow off valve, check and stop valve. Whistle, stack and piping are not included with boilers, but these can be furnished at very low prices. Our boilers are all tested to a hydrostatic pressure of 150 lbs. to the square inch, which insures their being absolutely tight and sound in every respect.

Shipment will be made from our Factory in Pennsylvania.

Can furnish with either round or octagon base.



No. 8-A-2

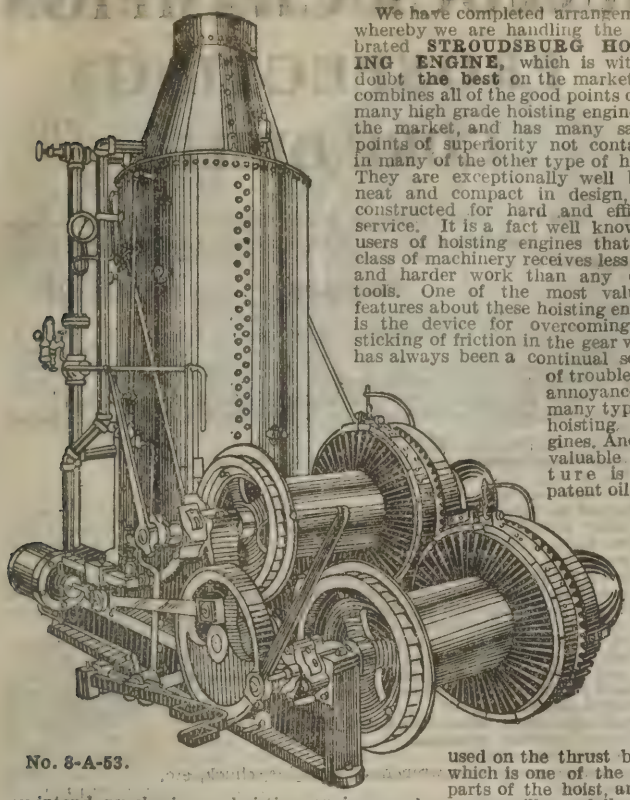


No. 8-A-3

TABLE OF DIMENSIONS AND PRICE LIST FOR No. 8-A-2 AND No. 8-A-3

Number of Size	0	A	B	1	2	3½	4	5	6
Horse-power as usually rated	1½	2	3	4	5	6	7	9	11
Diameter of Boiler, inches	20	20	20	24	24	27	30	30	30
Height of Boiler, feet	3	3½	4	4	5	5	5	6	7
Diameter of Furnace, inches	16	16	16	19	19	21	24	24	24
Height of Furnace, inches	18	18	18	23	23	26	26	26	26
Thickness of Shell, inches	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
Thickness of Heads, inches	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
Thickness of Furnace Plate, in	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2
Number of Tubes (all 2 inches in diameter)	16	19	19	24	24	30	42	42	42
Length of Tubes, inches	18	24	30	25	37	34	34	46	58
Square Feet of Heating Surface	18	25	30	39	51	59	75	96	107
Weight of Boiler without Fixtures, pounds, about	350	450	550	900	1000	1100	1200	1400	1600
Weight of Boiler with Fixtures, pounds	450	550	650	1300	1400	1500	1800	2000	2200
Price	$40.00	$45.00	$50.00	$70.00	$75.00	$85.00	$105.00	$120.00	$135.00

Double Drum Standard Hoisting Engine with Boiler.



No. 8-A-53.

We have completed arrangements whereby we are handling the celebrated **STROUDSBURG HOISTING ENGINE,** which is without doubt **the best** on the market. It combines all of the good points of the many high grade hoisting engines on the market, and has many salient points of superiority not contained in many of the other type of hoists. They are exceptionally well built, neat and compact in design, and constructed for hard and efficient service. It is a fact well known to users of hoisting engines that this class of machinery receives less care and harder work than any other tools. One of the most valuable features about these hoisting engines is the device for overcoming the sticking of friction in the gear which has always been a continual source of trouble and annoyance on many types of hoisting engines. Another valuable feature is the patent oil bath used on the thrust boxes which is one of the vital parts of the hoist, and if you intend purchasing a hoisting engine, we hope you will carefully consider the many improvements, and purchase a fully up-to-date machine which is designed to do good and rapid work and do it in the most efficient manner. We are having these hoists built in the following types:

DOUBLE CYLINDER, SINGLE DRUM, WITH BOILER.
DOUBLE CYLINDER, SINGLE DRUM, WITHOUT BOILER.
DOUBLE CYLINDER, DOUBLE DRUM, WITH BOILER.
DOUBLE CYLINDER, DOUBLE DRUM, WITHOUT BOILER.

Double Cylinder, Double Drum with winch head, ratchet, pawls and fixtures, complete with foot brakes, for Contractors, Pile Driving, Quarries, Dock and Bridge Building, Sewer and Railroad Construction, Conveying and Operating Trench Machines, and for all work where a stiff, strong engine is required. The winches can be independent or fixed.

THE STROUDSBURG is a high-class engine. They are made right, run right, and are right. No pains have been spared to make this engine the best that money, skill and experience can produce. Made in sizes from 6 to 50 horse-power.

We build other style engines for all classes of work. Write for prices before placing your orders.

TABLE OF SIZES, Etc.

Engine No.	H. P. Usl'y Rtd.	Dimen. of Cylinders.		Dimen. of Drums.		Dimensions of Boiler.			Dim. of Bed P.		Weight Hoisted S. Rope.	Suitable Wgt. P. D. Hammer.	Estimated Shipping Weight.
		Dia.	Str'k	Dia.	Lgh.	Dia.	Hgt.	No. of 2-inch Tubes	Wd.	Lgh.			
1	6	5	6	10	20	28	68	40	44	71	1500	1000	5000
2	8	5	8	12	22	32	80	55	47	77	2000	1500	6200
3	12	6¼	8	14	22	34	84	60	50	84	3000	2000	8000
4	16	6¼	10	14	26	36	84	65	54	86	4000	2800	9000
5	20	7	10	14	26	38	90	77	55	92	5000	3500	10000
6	28	8	10	14	27	42	96	90	58	99	8000	5000	11500
7	40	8¼	12	16	32	46	102	125	66	104	10000	8000	14000
8	45	9	12	16	32	48	102	142	66	104	11000	9000	15000
9	50	10	12	16	32	50	102	155	72	115	12000	10000	20000

The above Engines can be Furnished with Boom Swinging Gear.

No. 8-A-54.

SINGLE DRUM STANDARD HOISTING ENGINE WITH BOILER.

The double cylinder engines possess the special feature of having no centers, the cranks being connected at an angle of 90 degrees, thus being much easier to start, handle, etc.

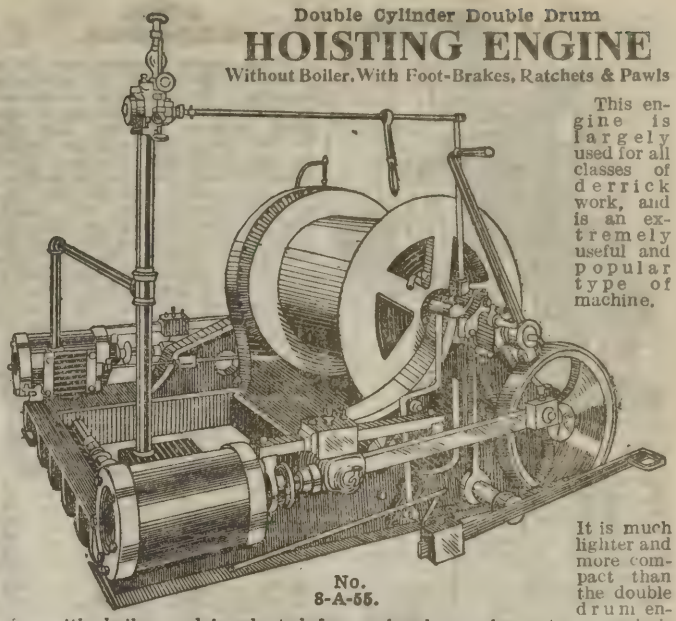
TABLE OF SIZES, Etc.

Engine No.	H. P. Usl'y Rtd.	Dimen. of Cylinders.		Dimen. of Drums.		Dimensions of Boilers.			Dim. of Bed Plate.		Weight Hoisted S. Rope.	Suitable Wgt. P. D. Hammer.	Estimated Shipping Weight.
		Dia.	Str'k	Dia.	Lgh.	Dia.	Hgt.	No. of 2-inch Tubes	Wd.	Lhg.			
11	6	5	6	10	20	28	68	40	41	57	1500	1000	4000
12	8	5	8	12	22	32	80	55	46	62	2000	1500	5000
13	12	6¼	8	14	22	34	84	60	48	67	3000	2000	6200
14	16	6¼	10	14	26	36	84	65	52	69	4000	2800	7500
15	20	7	10	14	26	38	90	77	54	72	5000	3500	8500
16	28	8	10	14	27	42	96	90	57	75	8000	5000	10000
17	40	8¼	12	16	32	46	102	125	66	93	10000	8000	12000
18	45	9	12	16	32	48	102	142	66	93	11000	9000	13000
19	50	10	12	16	32	50	102	155	72	95	12000	10000	15000

Double Cylinder Double Drum

HOISTING ENGINE

Without Boiler, With Foot-Brakes, Ratchets & Pawls



No. 8-A-55.

This engine is largely used for all classes of derrick work, and is an extremely useful and popular type of machine. It is much lighter and more compact than the double drum engine with boiler, and is adapted for use in places where steam or air is already supplied. In many instances a number of these engines are used by contractors, or in quarries, where the steam is furnished from one main boiler, with branch pipes running to the various engines. By this method only one engineer is required to attend the boiler, while the engines are operated by ordinary laborers, who after a little practice become quite skilful.

Each drum is provided with shrouded ratchets and pawls of ample strength to hold securely any load the engine can hoist.

A winch head of our regular form is attached to the outer end of each drum shaft, and can be used for hoisting or hauling.

Foot-brakes are strongly recommended, as they add to the safety and convenience of the engine and save wear on the drum frictions.

TABLE OF SIZES, Etc.

Engine No.	H. P. Usl'y Rtd.	Dimen. of Cylinders.		Dimen. of Drums.		Dimen. of Bed-Plate.		Weight Hoist, Single Rope.	Suitable Weight Pile-Driving Hammer.	Approximate Shipping Weight.
		Dia.	Str'k	Dia.	L'gt.	Wd.	L'gt.			
21	6	5	6	10	20	44	71	1500	1000	3500
22	8	5	8	12	22	47	77	2000	1500	4300
23	12	6¼	8	14	16	44	84	3000	2000	5000
24	16	6¼	10	14	18	46	86	4000	2800	6000
25	20	7	10	14	18	47	92	5000	3500	6500
26	28	8	10	14	20	50	99	8000	5000	7500
27	40	8¼	12	16	24	58	104	10000	8000	10000
28	45	9	12	16	24	58	104	11000	9000	11000
29	50	10	12	16	24	64	115	12000	10000	12000

The above Engines can be Furnished with Boom Swinging Gear.

No. 8-A-56.

Double Cylinder Single Drum Hoisting Engine.

WITHOUT BOILER. WITH FOOT-BRAKE, RATCHET AND PAWL.

These engines are of a most useful type and are largely used for general hoisting purposes where steam or compressed air are available. They are simple and compact; cannot get caught on the centers, and are safer and simpler to operate than single cylinder engines. They are well adapted for use on docks. They can be either fixed at definite points or mounted on dock wheels, and thus being portable can be concentrated at any place and unload a vessel very quickly. A few engines can be made to cover a large dock with efficiency and economy. They are also useful on steamers for handling freight, and on sailing vessels for handling cargo, sails, anchor, etc.

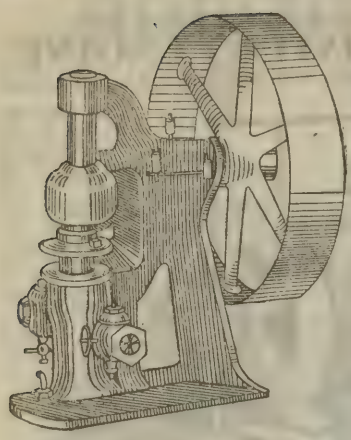
For small mines many are in use for depths of 50 to 200 feet or more, the drums usually being lagged, increasing the diameter about six inches.

Foot-brakes are strongly recommended, as they add to safety in handling and save wear on the drum friction.

A winch head is fixed to the outer end of the drum shaft.

TABLE OF SIZES, Etc.

Engine No.	H. P. Usl'y Rtd.	Dimen. of Cylinders.		Dimen. of Drums.		Dimen. of Bed-Plate.		Weight Hoisted, Single Rope.	Suitable Weight Pile-Driving Hammer.	Approximate Shipping Weight.
		Dia.	Str'k	Dia.	Lgh.	Wd.	Lgh.			
31	6	5	6	10	20	41	57	1500	1000	1800
32	8	5	8	12	22	46	62	2000	1500	2200
33	12	6¼	8	14	16	42	67	3000	2000	2800
34	16	6¼	10	14	18	45	69	4000	2800	3200
35	20	7	10	14	18	46	72	5000	3500	4000
36	28	8	10	14	20	49	75	8000	5000	6000
37	40	8¼	12	16	24	58	93	10000	8000	8000
38	45	9	12	16	24	58	93	11000	9000	8500
39	50	10	12	16	24	64	95	12000	10000	9000



PUMPS.
BELT DRIVEN.

These pumps occupy very little space, are easy to set up and keep in order. The plungers are guided at both ends, and the power applied between bearers. The pin in the crank has a roller working on it within the slot, thus giving an easy and smooth motion. All the wear comes on the pin, so that repairs are very light. The pin and bearing are all very large so as to reduce the wear to the least amount possible. The pumps are furnished with heavy check valves, large valve openings and are very durable. We always send the valves with close nipples to attach the valves to pump barrel. Where the lift from water to pump is ten feet or more, it is best to use a foot valve on the end of suction pipe, where it can be used. Size and capacity of pumps:

No.	Piston inch	Stroke inch	Pipes inch	Pulley	Power of Boiler	Weight lbs.	Gallons per Hour
No. 8-A-85.	1	2	⅜	12x2	3	35	18
No. 8-A-86.	1½	2½	⅜	14x2	5	45	30
No. 8-A-87.	1½	3	½	16x3	10	65	60
No. 8-A-88.	1½	3	¾	16x3	15	75	90
No. 8-A-89.	2	3	1	18x4	30	130	180
No. 8-A-90.	2½	3	1	18x4	45	170	270
No. 8-A-91.	2	6	1¼	22x4	60	200	360
No. 8-A-92.	2½	6	1¼	14x4	80	300	400

ROCK DRILLS.

No. 8-A-93. One pair of standard make of steam or air rock drills, which have been put in perfect condition in every way, and are just about as good as new machines.
No. 8-A-94. One 1¼-inch Bullock Monarch Drill, fitted for air or steam.
No. 8-A-95. Four 2-inch Bullock Monarch Drills, fitted for air or steam.
No. 8-A-96. Two 2¾-inch Bullock Monarch Drills, fitted for air or steam.
No. 8-A-97. Four 3½-inch Bullock Monarch Drills, fitted for air or steam.
No. 8-A-98. One U-A Sullivan Drill, for air.
No. 8-A-99. Two U-C Sullivan Drills, for steam.
No. 8-A-100. Three U-E Sullivan Drills, for steam.
No. 8-A-101. One U-E No. 2 Drill, for steam.
No. 8-A-102. Seven 2¾-inch Rand Little Giant Drills.
No. 8-A-103. Three 3-inch Rand Little Giant Drills.
No. 8-A-104. Two 3½-inch Rand Little Giant Drills.
No. 8-A-105. One 2¾-inch Ingersoll Drill, for steam.
No. 8-A-106. Three 3¾-inch Ingersoll Drills, for steam.

BULLOCK CHAMPION PROSPECTING CORE DRILL

One (1) Bullock Champion Diamond Prospecting Core Drill, double cylinder type, complete with hoist drum, swivel head, necessary gauges and the following equipment:

No. 8-A-107.

Two blank bits ready to set.
205 feet of drill rods with couplings (20–10 feet, 1–5 feet).
One 20-inch core barrel.
One 10-foot plain core barrel.
One core shell and two core lifters.
Twenty feet 4-ply water hose with connection for drill and pump.
One wire rope (wound on hoisting drum) with hook and 75 feet of ½-inch rope.
One safety clamp.
One sheave for hoisting rods, with strap and hook.
One lifting bail with clevis.
One bail and bolt for sheave.
One lifting swivel or hoisting plug, with coupling.
One water swivel with coupling and elbow.
One tool chest with lock and key.
One pound No. 18 copper wire.
One machinists' hammer.
One complete set of diamond setting tools consisting of:
One 3½-inch jaw vise, with swiveled base.
One breast drill with 5 bits from ⅛ to ¼ inch diameter.
One set of 12 setting chisels and punches.
One light hammer for diamond setting.
One pair each 6-inch dividers, inside and outside calipers.
One head for holding bits while setting.
One 6-inch adjustable level.
Two pair pipe tongs, adjustable 1 to 2 inches.
Two 12-inch monkey wrenches.
One 14-inch pipe wrench.
One complete set of solid wrenches for engine, chuck, etc.
One hand oiler.
One 1-gallon oil can.
One engine oil cup with valve.
Two recovering taps, rubber and hemp packing and waste, all pipes and fittings necessary to connect drill, pump and boiler.

FEED WATER HEATERS.

This is one branch of our business to which we pay the most particular attention. We are constantly dismantling large Manufacturing and Industrial Plants which puts us in possession of Feed Water Heaters of every description, both open and closed. At the present time we have on hand the following heaters, which have been carefully gone over and are about ready for shipment.

No. 8-A-63.
Two 2000 H. P. Baragwanath Heaters.
54 inch diameter.
20 feet high.
Brass Tubes.
18 inch exhaust inlet.
18 inch exhaust outlet.
5 inch water supply.

No. 8-A-64.
One 1500 H. P. Berryman Heater.
54 inch diameter.
18 feet high.
Brass Tubes.
14 inch exhaust inlet.
14 inch exhaust outlet.
3 inch water supply.

No. 8-A-65.
One 1000 H. P. Baragwanath Heater.
38 inch diameter.
12 feet high.
Iron Tubes.
14 inch exhaust inlet.
14 inch exhaust outlet.
3 inch water supply.

No. 8-A-66.
One 500 H. P. Stillwell Bierce Class "B" Open Type Feed Water Heater.
60 inch diameter.
12 feet high.
15 inch exhaust inlet.
4 inch water supply.

No. 8-A-67.
One 500 H. P. Excelsior Feed Water Heater and Purifier.
45 inch diameter.
8 feet long.
16 inch exhaust inlet.
6 inch water supply.
Complete with oil separator, float valve and the usual trimmings.

No. 8-A-68.
One 250 H. P. Brownell Open Type Heater.
36 inch diameter.
8 feet high.
10 inch exhaust inlet.
3 inch water supply.

No. 8-A-69.
One 175 H. P Reynolds Pressure Feed Water Heater.
24 inch diameter.
10 feet high.
Iron Tubes.
10 inch exhaust opening.
2½ inch water supply.

No. 8-A-70.
One 150 H. P. Baragwanath Heater.
30 inch diameter.
16 feet high.
8 inch exhaust opening.
2½ inch feed water opening.
Iron Tubes.

No. 8-A-71.
One 150 H. P. Reynolds Heater.
30 inch diameter.
8 feet high.
8 inch exhaust opening.
1½ inch feed water opening.

No. 8-A-72.
One 125 H. P. Baragwanath Heater.
36 inch diameter.
6 feet high.
Iron Tubes.
7 inch exhaust opening.
2½ inch feed water opening.

No. 8-A-73.
One 125 H. P. Reynolds Heater.
24 inch diameter.
7 feet high.
8 inch exhaust diameter.
1½ inch feed water opening.

No. 8-A-74.
One 100 H. P. Berryman Heater.
20 inch diameter.
8 feet high.
Brass Tubes.
6 inch exhaust opening.
1½ inch feed water opening.

No. 8-A-75.
One 100 H. P. Brownell Open Type Heater.
36 inch diameter.
6 feet high.
6 inch exhaust opening.
3 inch feed water opening.

No. 8-A-76.
One 85 H. P. Baragwanath Horizontal Heater and Purifier.
24 inches wide.
7 feet long.
4 feet high.
Brass Tubes.
6 inch exhaust opening.
2 inch feed water opening

No. 8-A-77.
One 85 H. P. Baragwanath Heater.
20 inch diameter.
5 feet 6 inches high.
6 inch exhaust opening.
1½ inch feed water opening.

No. 8-A-78.
One 80 H. P. Berryman Heater.
20 inch diameter.
7 feet high.
5 inch exhaust inlet and outlet.
2 inch feed water connection.
Brass Tubes.

No. 8-A-79.
One 80 H. P. Berryman Heater.
20 inch diameter.
7 feet high.
5 inch exhaust inlet and outlet.
2 inch feed water connection.
Brass Tubes.

No. 8-A-80.
One 75 H. P. Baragwanath Heater.
18 inch diameter.
6 feet high.
4 inch exhaust opening.
1½ inch feed water connection.

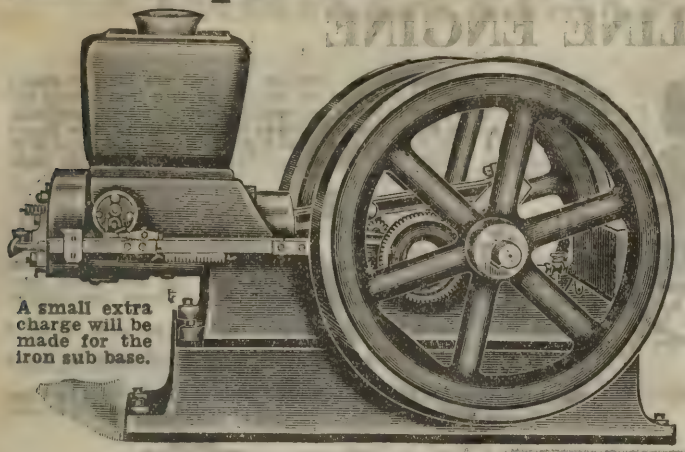
No. 8-A-81.
One 65 H. P. Baragwanath Heater.
20 inch diameter.
5 feet high.
4 inch exhaust opening.
1½ inch feed water opening.
Brass Tubes.

No. 8-A-82.
One 65 H. P. Baragwanath Heater.
20 inch diameter.
8 feet high.
4 inch exhaust opening.
1½ inch feed water opening.

No. 8-A-83.
One High Pressure Steam Separator.
48 inch diameter.
20 feet long.
Triple Riveted, lap joint.
7-16 inch shell.
24 inch outlet.
14 inch outlet.

No. 8-A-84.
One Stillwell Bierce Open Type Live Steam Heater.
36 inch diameter.
14 feet high.
3½ inch steam inlet and outlet.
3½ inch feed water pipe.

Our Special "Success" Gasoline Engine



A small extra charge will be made for the iron sub base.

"SUCCESS" No. 8-A-57.

Our Frost Proof Engines have no superior, and we cannot recommend them too highly. By systematic experiment and conclusive demonstration we have found that **it is unnecessary to use a large volume of water to successfully cool a gasoline engine,** it being necessary only to have sufficient water to radiate the dry heat created by the continual ignition of gas in the engine cylinder.

In our Open Jacket Engine this is effectually done. The temperature of the water will in a very short time rise to boiling heat, and the water boils around the engine cylinder the same as in a tea kettle and the heat passes off in vapor or steam. The only additional water required is to supply such as passes off in vapor or steam. **If desired a solution of calcium chloride or non-freezing solution may be added to the water, making a frost proof engine.** The calcium chloride is harmless and will not corrode or injure the engine cylinder. But if you do not wish to use the non-freezing solution, the open jacket contains only a few pails of water and it requires but a moment's time to open the valve and allow the water to run out when the engine is not in use. In fact, a large per cent of users prefer to do this rather than to use the non-freezing solution. As with all our engines the speed of this engine is controlled by a governor, so as to be uniform and regular, but it can be varied by the operator within a certain range to suit the machinery to be run.

FUEL. Our engines are designed for operating on gasoline but if desired kerosene, naphtha, distillate or alcohol may be substituted without any change in the mixing chamber, and by supplying special valves and gas bag or manufactured gas may be used in the engines.

ECONOMY. The cost of fuel is practically the only operating expense of one of our engines. The gasoline or fuel is positive in the regulation of fuel to the engine. The gasoline and air are practically mixed outside of the cylinder, and drawn in as a gas, consequently no liquid fuel is ever drawn into the cylinder and wasted. No engineer is required as the governor regulates the speed of the engine and the fuel valve needs no adjustment after the engine is started. In fact it requires no attention from the time of starting until it is stopped, aside from supplying fuel and lubricating oil. Almost any person can successfully operate our engines.

CRANK SHAFTS are forged from a solid piece of steel—not a weld in them. They are turned and finished in the most perfect manner possible and are of sufficient strength to resist twice the strain of the work they are called upon to do. Our crank shafts are extra long so that a common pulley may be keyed on the shaft instead of the cheap way of bolting the pulley to the spokes of the wheels and requiring the use of a special pulley. Our pulleys are usually placed on the opposite side from the working parts of the engine, but may be placed on the reverse side when specially ordered.

CONNECTING RODS. Our connecting rods are of modern design, being I-beam in section and form which insures great strength and stiffness. The crank end of the rod is constructed with lock nut and bolt and is a very simple adjustment. The arrangement is very durable and substantial.

THE GOVERNOR. The governor is of special design to meet the requirements of our engine. It is operated by gear on the side of the engine base, is positive in action, simple in construction, and perfectly controls the speed of the engine, and at the same time cuts off the supply of gasoline so that when less than the full power of the engine is used a proportionately less supply of gasoline will be consumed. Our governor also has the distinct feature of permitting the speed of the engine to be varied while the engine is in motion. The controling lever being near the open end of the cylinder. By simply moving the lever toward the cylinder head, the speed of the engine will be increased until you reach the extreme limit, and by moving the lever forward, the speed will be decreased. Our speed regulating lever is a feature of much merit and should be taken into consideration by prospective engine buyers.

CYLINDER HEAD. The cylinder head is water jacketed and fits accurately to insure a tight joint, and is securely bolted to the engine cylinder with strong stud bolts. Both the inlet valve and exhaust valve are steel forged turned and finished and bolted, located in the cylinder head and held in place by the valve springs.

THE PISTON. The Piston is made of fine close grain iron with heavy castings in the center to receive the wrist pin. The wrist pin is turned from a solid piece of machine steel and is very durable. Piston is turned to an exact fit with circular packing rings, with lap joint and insures strong compression. The cylinder is also made of special close grained iron and bored on our special boring machine.

THE VITAL PARTS.

THE IGNITER. In describing the mechanical construction of our gasoline engines, we wish to say that we consider the igniter and mixing chamber the two important features for your consideration and they might properly be referred to as the heart and lungs of the engine, being the vital parts of the construction. We spark our gasoline engines with electric igniter. Our electric igniter is of the hammer brake pattern, having meteor wire points which prevent corroding and always insure a bright spark. The points of the igniter are always out of contact except when the igniter lever brings them together for the purpose of making the electric spark. The igniter is operated only when a charge of gas is to be ignited and thus saves the wear of the igniter parts, and the use of the battery. By releasing two cap screws, the entire igniter may be removed from the engine cylinder.

MIXING CHAMBER. Our mixing chamber is of ingenious construction. The suction feed, without the use of the gasoline pump, draws the fuel to the mixing chamber. The gasoline in the mixing chamber is vaporized by the current of air drawn in the mixing chamber by the suction of the engine's piston; the supply of gasoline being regulated by the throttle valve. Through the intake valve the engine is then supplied with the proper quantity of gas, and the throttle valve once adjusted needs no further change.

SUCCESS GASOLINE ENGINES.

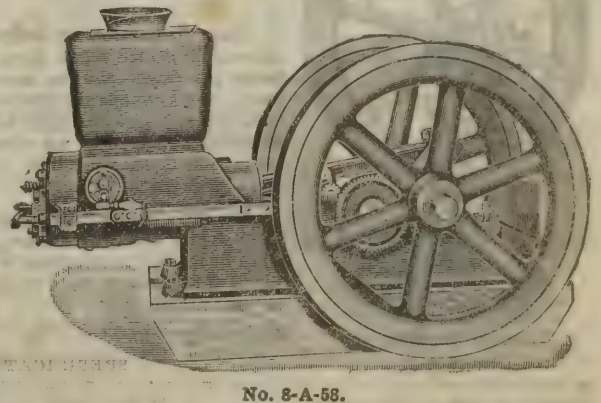
Successful in every way. Sold on thirty days' free trial. Guaranteed for five years.

$49.75 BUYS OUR 2-H. P. STATIONARY SUCCESS GASOLINE ENGINE COMPLETE.

Prices on Stationary Gasoline Engines.

2 H.P.	$ 49.75	7 H.P.	$177.50
4 H.P.	96.75	10 H.P.	265.00

The above prices are not for the engine alone, but include electric igniter, battery, lubricator, grease cups, pulley, supply tank, starting crank, one can lubricating oil, one pound hard oil, oil can, pair of pliers and in fact a complete outfit ready for use.



No. 8-A-58.

SPECIAL FEATURES.

The Success Gasoline Engines are very simple to operate, and are guaranteed to be successful in every way. This is the reason we are ready to ship you one of our Success Gasolines on **Thirty Days' Free Trial,** allowing you to test and run it and compare it with any other make gasoline engine. You take no chance whatever by buying our Success.

Gasoline Engine for the engine must be all that the name implies. All that we ask is that you take and test the engine, and if you are dissatisfied for any reason, the engine may be returned to our factory and we will refund the price paid.

FIVE YEARS' GUARANTEE. After you have received your gasoline engine and are satisfied after thirty days' free trial, we are then ready to give you our five year binding guarantee. This means that if any part of the Success Gasoline Engine should show a defective part in workmanship or material within five years from the date of purchase, that we will furnish any parts that may be required to replace such defective parts free of charge.

CARE REQUIRED. In buying a gasoline engine we do not want to lead you to believe that it is a machine that requires no care or attention, but we are willing to leave it to your good judgment. If you will properly lubricate and otherwise care for the engine so that it will have a fair test, you will have no trouble with the Success Gasoline Engine.

TESTING. Each one of our engines is thoroughly tested, first by the man who builds it, then by the expert who passes upon it, and lastly by the shipping clerk before it is crated. Thus every engine before leaving our factory has three tests. The object of these tests is to show that the engine has no defective parts, and that it will develop the actual horse power as rated. If it passes these severe tests, it is then securely crated and shipped out all ready for use.

FULL THIRTY DAYS' FREE TRIAL. We will allow you full thirty days after you receive the engine to test it to your own satisfaction. If at the end of the trial period you do not find the engine as we represent it, you may return it to us at our expense.

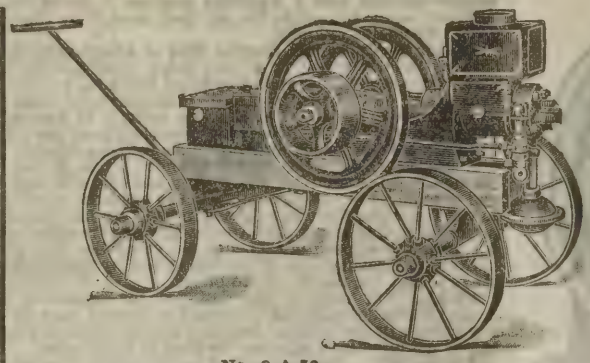
WHAT GOES WITH EACH ENGINE. Each engine is fitted with one gasoline tank, and in case of the Water Cooled, one galvanized water tank; necessary piping and valves, one battery box, six dry cells, one spark coil, one switch, necessary grease cups and oil cups, one starting crank, one muffler, necessary wrenches, one oil can, one quart of cylinder oil, one pound of hard oil, one pair of pliers, one book of instructions for operating the engine, and illustrated price list of repairs.

Stationary engines in addition to the above are equipped with pulleys as follows:

2 H.P.—10 inches in diameter, 6 inch face.
4 H.P.—12 inches in diameter, 6 inch face.
7 H.P.—14 inches in diameter, 8 inch face.
10 H.P.—16 inches in diameter, 8 inch face.

$62.50 BUYS THE "SUCCESS" HAND PORTABLE 2 H.P. GASOLINE ENGINE

OUR MONTHLY MACHINERY BULLETIN WILL BE MAILED YOU ON REQUEST.



No. 8-A-59

Our Success Hand Portable Gasoline Engines are built in sizes 2 and 4 H. P. They are mounted on low trucks with iron wheels 18" in diameter and iron axles, with small tongue. **They are convenient to move from place to place on the farm.** The length over all of the 2 H. P. hand portable engine is 5 feet, and the 4 H. P. Hand portable engine 5 feet 8 inches. This mounting is most satisfactory for all farm purposes.

$108.50 BUYS THE 4 H. P. SUCCESS HAND PORTABLE GASOLINE ENGINE **$108.50**

The Success Gasoline Engines are constructed in two styles, the water cooled with separate cooling tank, and the frost proof open jacket with cooling tank situated immediately above the cylinder and attached thereto.

The 2 H. P. Hand Portable Engine is equipped with 10 by 6 common pulley.

The 4 H. P. Hand Portable Engine is equipped with 12 by 6 common pulley.

Hand Portable Engines are equipped with the same style and size pulleys as the stationary engines and are mounted on low iron trucks.

$265.00 BUYS A 7 H. P. SUCCESS STANDARD PORTABLE GASOLINE ENGINE. **$265.00**

The Success Standard Portable Gasoline Engines are in general use operating well drills, threshing machines, corn shredders, corn shellers, hay balers and wood saws. They are fast taking the place of steam traction engines, because of their cheapness in operation and because they are much more convenient. These engines we build for the use of farmers, contractors, threshers, well drillers and all other persons needing power.

Our Success Gasoline Engines are especially designed to be easily understood and operated. It is not necessary to have experts in order to operate them successfully We have been selling these engines for years, shipping them into all parts of the United States and to men who never before operated a gasoline engine. These men have had excellent success in operating our engines. One great advantage is that this engine requires but little water to a small amount of fuel.

$340.00 BUYS A 10 H.P. SUCCESS STANDARD PORTABLE GASOLINE ENGINE. **$340.00**

The Success Standard Portable Gasoline Engine is built in two styles, the water cooled, with separate cooling tank, and the frost proof open jacket with cooling tank situated immediately above the cylinder and attached thereto. These engines are mounted on heavy trucks with iron wheels and wood channels. **The 7 H. P. Success Standard Portable Engine** is equipped with 24 by 6 friction clutch pulley. **The 10 H. P. Success Standard Portable Engine** is equipped with 30 by 8 friction clutch pulley.

Standard Portable Engines are mounted on all-steel trucks with tongue for team and are equipped with friction clutch pulleys as follows:
4 H. P.—14 inches in diameter, 6 inch face. 7 H. P.—24 inches in diameter, 6 inch face. 10 H. P.—30 inches in diameter, 8 inch face.

A Strictly High Grade Engine in Every Respect.

WILL STAND COMPARISON WITH THE VERY BEST ENGINES IN THE MARKET TO-DAY.

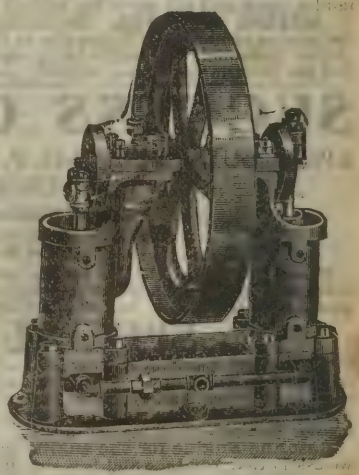
No. 8-A-60

The Jacobson Water Jacketed Air Compressor

SINGLE CYLINDER
No. 8-A-61

These Compressors are designed and built to meet the requirements of the automobile garage repair shops, pneumatic water supply installations, pneumatic gas engine starting apparatus and any place where compressed air is used. The flywheels are crowned in order that they may be driven by a belt. They are also provided with handle to permit operating by hand power. All machines are tested for a working pressure of 200 pounds per square inch, and are capable of handling their rated capacity in free air at any pressure up to 200 pounds per square inch.

The two cylinder is the same as the single cylinder machine in construction and design. The two cylinders are so arranged that one piston is compressing when the other is returning so that it does not take any wider belt to drive the double machine than the single, but it delivers just twice as much free air per minute.



TWO CYLINDER
No. 8-A-62

SPECIFICATION—SINGLE CYLINDER

Cubic Feet Free Air Per Minute	Diameter of Cylinder	Stroke	Rev. Per Minute	Air Delivery	Water Pipe	Floor Space	Diam. of Pulley	Weight	List Price
3½	3 in.	4 in.	200	½ in.	¼ in.	24x20 in.	24x3 in.	210 lbs.	$37.50

Single Cylinder can be furnished with loose pulley. **List Price $60.00.**

SPECIFICATION—TWO CYLINDER

Cubic Feet Free Air Per Minute	Diameter of Cylinder	Stroke	Rev. Per Minute	Air Delivery	Water Pipes	Floor Space	Diam of Pulley	Weight	List Price
6½	3 in.	4 in.	200	½	¼ in.	24x31 in.	24x3 in.	340 lbs.	$67.00
27	5 in.	6 in.	200	1½	⅜ in.	30x40 in.	30x5½ in.	900 lbs.	$175.00

IRRIGATING EQUIPMENT

A word or two in regard to this most modern method of irrigating small farms. We have given this proposition very careful consideration and give herewith information which we have collected with reference to the proper size pump and power required. Of course the conditions differ with different localities, as to the quantity of rainfall and the kind of crops raised. From the information we have been able to obtain from practical farmers and irrigators throughout the West who have made a success in this line, we believe the following table is very accurate:

A 1¼ pump will irrigate 10 acres of land running 40 days of 10 hours each, if lifting the water about 20 feet, and will require a 2 horse power engine, and as the ordinary Standard type of gasoline engine is used, the cost of operation will approximate more than 1 cent per horse power per hour and this basis will be found correct on all of the large sizes of gasoline engines as well.

Of course in larger units, where more than 40 horse power is required, we would recommend a steam equipment and we are prepared to furnish pumps up to 12 inches with suitable engine and portable fire box boiler.

The No. 2 pump will supply 20 acres of land with a 3 horse power engine.
The No. 3 pump will supply 40 acres of land with a 6 horse power engine.
The No. 4 pump will supply 80 acres of land with a 10 horse power engine.
The No. 6 pump will supply 120 acres of land with a 20 horse power engine.
The No. 8 pump will supply 320 acres of land with a 40 horse power engine.
The No. 10 pump will supply 640 acres of land with a 55 horse power engine.
The No. 12 pump will supply upwards of 1500 acres of land and will require about a 70 horse power.

We give herewith a full and complete description of the different size pumps with prices. These pumps are all strictly brand new, warranted and guaranteed by the makers as well as ourselves and the prices are extremely low.

In regard to gasoline engines up to 10 horse power, we would recommend our SUCCESS type which is fully described on another page of this catalog. We also have other gasoline engines, both new and second-hand up to 40 horse power.

MODERN CENTRIFUGAL PUMPS

For

Irrigation, Drainage, Sewerage, Circulation, Etc.

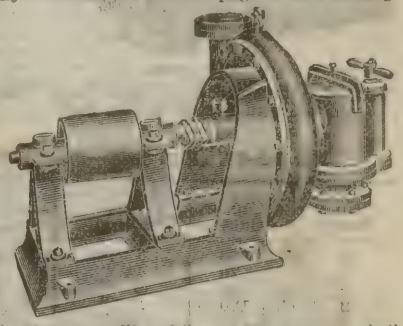
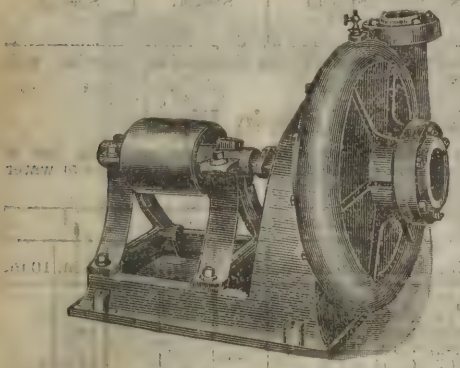


Fig. 1902 is our Standard Side Suction Centrifugal Pump. This pump is designed and constructed throughout on very liberal lines. The case or shell is of the solid type, very heavy, and the runner of large diameter, adapting the pump for slow speed. The inside of the case is machine finished and the runner machined and accurately fitted to it, and our construction gives a closer running fit and greater efficiency than can be obtained in the old style split. The shaft is large and the bearings are generously proportioned, an ample stuffing box and gland being provided. The discharge can be readily adjusted at any angle. All parts are accurately interchangeable and any part can be readily duplicated.



No. 8-A-85. Fig. 1902.
Horizontal Side Suction Centrifugal Pump.

Fig. 1902—Sizes, Capacities, Prices, Etc.

No. Pump	Cap. Gallons	Size of Pipe		Pulley	
		Discharge	Suction	Diameter	Face
1	30	1 in.	1¼ in.	4 in.	3 in.
1½	70	1½ "	2 "	5 "	5 "
1¾	90	2 "	2½ "	6 "	5 "
2	120	2 "	3 "	6 "	6 "
2½	185	2½ "	3½ "	7 "	6 "
3	265	3 "	4 "	7 "	8 "
3½	360	3½ "	4½ "	8 "	8 "
4	470	4 "	5 "	10 "	8 "
5	735	5 "	6 "	10 "	10 "
6	1060	6 "	8 "	14 "	12 "
8	2000	8 "	10 "	20 "	12 "
10	3000	10 "	12 "	24 "	12 "
12	4300	12 "	15 "	30 "	14 "
15	7000	15 "	18 "	Special	Special
18	10000	18 "	20 "	"	"

Brass fitted pumps have runner and shaft of brass.

These pumps can be fitted with tight and loose pulleys, if desired, at an extra charge.

On sizes above 10-inch it is advisable to use an ejector and either a foot valve or a flap valve as described on another page. No foot valve or flap valve is necessary when the hand primer is used.

In this illustration the method of attaching the shell to the hood on our Fig. 1902 pump is clearly shown.

Fig. 1903 is similar to our Fig 1902, with the exception that a hand suction primer is added.

We can furnish this pump with a hand primer if desired, as it is occasionally necessary to prime these pumps by hand. This may be done by opening the air cock at the top of the shell and then using the hand pump on the primer until the water flows from the air cock, when the pump can be started.

We can furnish these pumps both new and second-hand **Write for Bargain Prices.**

Revolutions and Horse-Power Required to Elevate Water to Different Heights

No. Pump	Cap. Gals.	H. P. per Ft. Elev.	5 Feet	10 Feet	15 Feet	20 Feet	25 Feet	30 Feet	35 Feet	40 Feet	50 Feet	60 Feet
1	30	.025	963	1176	1357	1515	1656	1790	1911	2028		
1½	70	.038	642	784	904	1010	1104	1193	1274	1352	1493	1622
1¾	90	.075	473	570	651	724	790	850	906	959	1058	1147
2	120	.10	364	443	511	570	623	672	718	762	840	913
2½	185	.15	389	448	500	547	590	630	667	703	770	830
3	265	.22	286	359	419	475	517	559	599	636	704	766
3½	360	.26	352	413	455	513	555	595	632	667	733	793
4	470	.30	324	390	445	493	539	580	618	654	721	771
5	735	.45	311	368	418	462	502	532	574	606	666	722
6	1060	.59	247	300	345	385	421	453	484	513	566	615
8	2000	1.00	293	345	390	430	466	500	552	561	617	667
10	3000	1.52	160	226	278	320	358	392	424	456	506	555
12	4300	2.00	133	188	230	266	298	326	352	376	421	461

VERTICAL CENTRIFUGAL PUMPS

Fig. 1900

Fig. 1900
Vertical Submerged Centrifugal Pump Furnished with Feet or Timber Pieces.

Fig. 1900, shown on this page, is our Vertical Submerged Centrifugal Pump arranged with feet.

This pump is intended to be entirely submerged in the liquid to be pumped and needs no priming. The weight of shaft is entirely supported by the yoke, which has a bearing with adjustment at the top, making a very durable pump, there being no step bearing inside the shell to cut and wear. By simply removing the nuts at the top of the shell, all of the running parts, including the runner, can be lifted out for inspection.

No. 8-A-87. Fig. 1900—Sizes, Capacities, Prices, Etc.

No. Pump	Cap. Gals.	Size Disch. Pipe	Pulley Diam.	Pulley Face	Coupling Bored for
1	30	1 in.	4 in	3 in.	⅜ in. shaft
1½	70	1½ "	5 "	5 "	½ "
1¼	90	2 "	6 "	5 "	1 "
2	120	2 "	6 "	6 "	1½ "
2½	185	2½ "	7 "	6 "	1½ "
3	265	3 "	7 "	8 "	1½ "
3½	360	3½ "	8 "	8 "	1½ "
4	470	4 "	10 "	8 "	1½ "
5	735	5 "	10 "	10 "	1⅞ "
6	1060	6 "	14 "	12 "	1⅞ "
8	2000	8 "	20 "	12 "	2½ "
10	3000	10 "	24 "	12 "	2½ "
12	4300	12 "	30 "	14 "	2¾ "
15	7000	15 "	Special	Special	Special
18	10000	18 "	"	"	"

Price covers pump complete, as shown in illustration, together with pulley of size listed above.

Speed of Pumps

Our Centrifugal Pumps should be run at the speed shown in the following table for any required elevation. If a long line of pipe is used on the suction or discharge, the pump should be run at a higher speed to overcome the friction of the water in the pipe or larger pipe should be used. And we give a table showing the loss of pressure in various sizes of pipe when discharging various amounts of water, due to friction.

In estimating the speed necessary for any pump, special care should be taken to provide for this friction loss, as if this is not done the amount of water discharged will be greatly diminished.

Revolution and Horse-Power Required to Elevate Water to Different Heights.

No. P'p	Cap. Gals.	H. P. per ft Elev.	5 Ft.	10 Feet	15 Feet	20 Feet	25 Feet	30 Feet	35 Feet	40 Feet	50 Feet	60 Feet
1	30	.025	963	1176	1357	1515	1656	1790	1911	2028		
1½	70	.058	642	784	904	1010	1104	1193	1274	1352	1493	1622
1¼	90	.075	473	570	651	724	790	850	906	959	1058	1147
2	120	.10	364	443	511	570	623	672	718	762	840	913
2½	185	.15	389	448	500	547	590	630	667	703	770	830
3	265	.22	286	359	419	475	517	559	599	636	704	766
3½	360	.26	352	413	455	513	555	595	632	667	733	793
4	470	.30	324	390	445	493	539	580	618	654	721	771
5	735	.45	311	368	418	462	502	532	574	606	666	722
6	1060	.59	247	300	345	385	421	453	484	513	566	615
8	2000	.80	203	245	285	320	350	380	410	435	480	520
10	3000	1.52	160	226	278	320	358	392	424	456	506	555
12	4300	2.00	133	188	230	266	298	326	352	376	421	461
15	7000	3.50	151	213	261	301	337	369	399	426	477	522
18	10000	4.50	151	213	261	301	337	369	399	426	477	522

Terms Used in Measuring Water for Irrigation.

A miner's inch in Montana is the quantity of water flowing through an opening 1-in. wide under a 6-in. head, equal to 12 gallons per minute.
Some states use a 4-in. head equal to 9 gallons per minute.
A cubic foot per second equals 450 gallons per minute.
An acre foot is 325,829 gallons per minute.

Fig. 1901

Fig. 1901, as represented on this page, is our Vertical Suction Centrifugal Pump arranged with feet. This pump is extensively used for irrigating by attaching the suction flange directly to the Well Casing. It may be placed with safety in pits where there is danger of water accumulating, as it will run submerged. The yoke with adjustable bearing at the top supports the entire weight of the shaft, and all of the running parts can be removed for inspection from top of pump without disturbing the suction or discharge pipe. The gland is provided with a water seal.

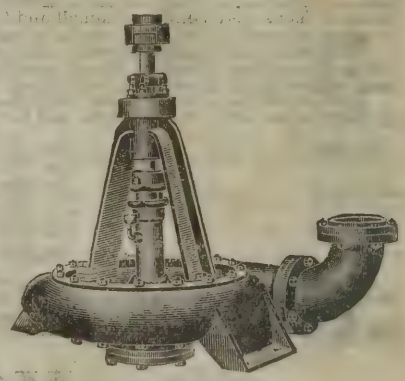


Fig. 1901
Vertical Suction Centrifugal Pump furnished with Feet or Timber Pieces.

No. 8-A-88. Fig. 1901—Sizes, Capacities, Prices, Etc.

No. Pump	Cap. Gals.	Size of pipe Disch.	Size of pipe Suct.	Pulley Diameter	Pulley Face	Coupling Bored for
1	30	1 in.	1½ in.	4 in.	3 in.	⅜ in. shaft
1½	70	1½ "	2 "	5 "	5 "	½ "
1¼	90	2 "	2½ "	6 "	5 "	1 "
2	120	2 "	3 "	6 "	6 "	1½ "
2½	185	2½ "	3½ "	7 "	6 "	1½ "
3	265	3 "	4 "	7 "	8 "	1½ "
3½	360	3½ "	4½ "	8 "	8 "	1½ "
4	470	4 "	5 "	10 "	8 "	1½ "
5	735	5 "	6 "	10 "	10 "	1⅞ "
6	1060	6 "	8 "	14 "	12 "	1⅞ "
8	2000	8 "	10 "	20 "	12 "	2½ "
10	3000	10 "	12 "	24 "	12 "	2½ "
12	4300	12 "	15 "	30 "	14 "	2¾ "
15	7000	15 "	18 "	Special	Special	Special
18	10000	18 "	20 "	"	"	"

Price covers pump complete, as shown in illustration, together with pulley of size listed above.

Friction of Water in Pipes

Friction loss in pounds pressure per square inch for each 100 feet of length in different size clean iron pipe, discharging given quantities of water per minute.

Gallons per Minute	Size of Pipe—Inside Diameter 1 in.	1½ in.	2 in.	2½ in.	3 in.	4 in.	5 in.	6 in.	8 in.	10 in.	10 in.
5	0.84	0.12	0.03								
10	3.16	0.47	0.12	0.03							
15	6.98	0.97	0.27	0.06							
20	12.3	1.66	0.42	0.13	0.03						
25	19.0	2.62	0.67	0.21	0.10						
30	27.5	3.75	0.91	0.30	0.12	0.03					
35	37.0	5.05	1.26	0.42	0.14	0.05					
40	48.0	6.52	1.60	0.51	0.17	0.06					
45		8.15	2.01	0.62	0.27	0.07					
50		10.0	2.44	0.81	0.35	0.09	0.03				
75		22.4	5.32	1.80	0.74	0.21	0.06	0.03			
100		39.0	9.46	3.20	1.31	0.33	0.12	0.05			
125			14.9	4.89	1.99	0.51	0.17	0.07			
150			21.2	7.0	2.85	0.69	0.25	0.10	0.02		
175			28.1	9.46	3.85	0.95	0.34	0.14	0.03		
200			37.5	12.47	5.02	1.22	0.42	0.17	0.05	0.01	
250				19.66	7.76	1.89	0.65	0.26	0.07	0.03	0.01
300				28.06	11.02	2.66	0.93	0.37	0.09	0.04	0.01

Gallons	3 in.	4 in.	5 in.	6 in.	8 in.	10 in.	12 in.	14 in.	16 in.	18 in.	18 in.
350	15.2	3.65	1.28	0.50	0.12	0.05	0.02				
400	19.5	4.73	1.68	0.65	0.16	0.06	0.02				
450	25.0	6.01	2.10	0.81	0.20	0.07	0.03				
500	30.8	7.43	2.70	0.96	0.25	0.09	0.04	0.017	0.009	0.005	
600		10.6	3.45	1.72	0.348	0.13	0.05	0.024	0.013	0.007	
750		16.5	5.40	2.21	0.53	0.18	0.08	0.038	0.019	0.011	
1000			9.60	3.88	0.94	0.32	0.13	0.062	0.036	0.018	
1250				6.07	1.46	0.49	0.20	0.095	0.050	0.028	
1500				8.71	2.09	0.70	0.29	0.135	0.071	0.040	
1750				11.83	2.84	0.95	0.38	0.180	0.095	0.053	
2000				15.43	3.69	1.23	0.49	0.234	0.123	0.069	
2500					5.75	1.90	0.77	0.362	0.188	0.107	
3000						2.73	1.11	0.515	0.267	0.15	0.09
3500							1.50	0.697	0.365	0.204	0.124
4000								0.91	0.47	0.264	0.158
4500								1.15	0.593	0.33	0.20
5000									0.73	0.41	0.244

Little Dandy Hand Power Mixer.

MODEL "A"

We also have Concrete Box Machines.

No. 8-A-92.

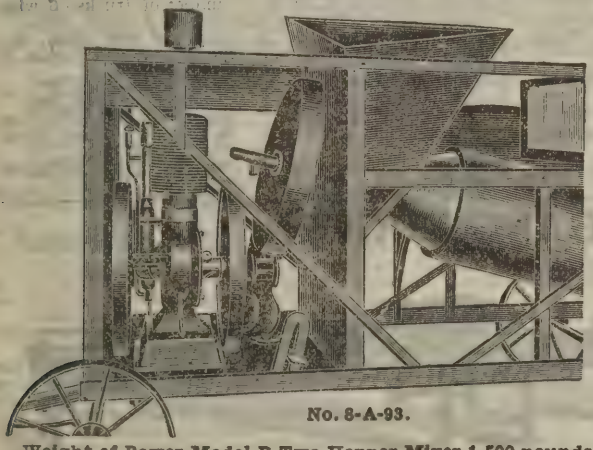
This mixer will turn out with less labor, as much concrete as any power driven machine. It can be operated by independent power if desired. Its output depends upon the man at the crank, but it must not be supposed that a man can do the work of an engine. This mixer has a capacity of 5 yds. per hour.

When operating this machine, see that the same is not overloaded, and keep the feed down to limitation of man's strength and endurance.

Our Model A hand power machine weighs approximately 700 pounds. This machine is mounted on wheels and can be readily moved about by a few men, making it invaluable for street work of all kinds. It is also possible to place this machine in any desired position so as to discharge directly into a trench or forms.

Little Dandy Two Hopper Power Mixer.

MODEL "B"



No. 8-A-93.

Weight of Power Model B Two Hopper Mixer 1,500 pounds.

This mixer has the same general construction as the hand power machine with the exception of being built on heavier lines. It will readily turn out double the product of the hand machine. No job too small, none too large for this mixer.

THE CAPACITY OF THIS MIXER IS 10 YARDS PER HOUR.

The output however, can be limited to a smaller amount by partially closing the feed gates. The engine is mounted upon the same frame, and has a belt connection that is simplicity in itself, and cannot possibly give trouble.

The frames are built of angle irons well trussed which makes them light but amply strong, as experience has proven. All joints are securely riveted. The hoppers are of heavy sheet iron, the bottom being formed by a rubber belt passed over pulleys. When the power is thrown on by a lever, this belt acts as a conveyor, throwing out the respective materials through orifices provided with adjustable gates to show the surface inches of the openings when set at any given point. By regulation of these gates, the exact proportion required can be obtained and varied at will.

The hoppers are equipped with rotary cork screw agitators which prevents bridging, and forces the material toward the gates. The interior surface of the revolving drum is longitudinally ribbed by means of which the materials are tumbled over and over while still dry as the drum rotates, gradually approaching the discharge end. When within 15" of the lower end of the drum, a sprinkling device wets to any consistency desired, the flow of water in greater or less quantity, being regulated by a valve.

The height of the hoppers on this machine is 50" from the ground, the discharge 16" from the ground. The engine on this mixer is rated at 2 to 2½ H. P., and this size is ample for the purpose. This is a thoroughly reliable engine of the 4 cycle type, is AIR COOLED, GEARLESS, fitted with VARIABLE COMPRESSION, mechanical ignition, and is most economical engine in the use of fuel.

Little Dandy Three Hopper Mixer.

MODEL "C"

The mixer is also built on somewhat different plans from Models A and B, being heavier in construction, having a larger and different mixing drum, and wider, heavier conveying belt, and is provided with three hoppers so as to automatically feed and proportion all three materials, where cement, sand, and stone are used. It requires little if any more power to operate, and the same engine is used as in Model B. **Weight of power mixer Model C, three hopper, is 1,905 pounds.**

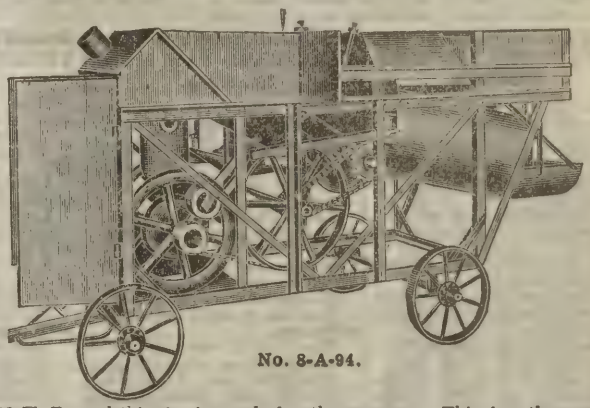
THE CAPACITY OF THIS MACHINE IS 15 YARDS PER HOUR.

The output, however, can be limited to a smaller amount by partially closing the feed gates. The engine is mounted upon the same frame, and has a belt connection which is simplicity in itself, and cannot possibly give trouble.

The frames are built of angle irons well trussed which makes them light but amply strong, as experience has proven. All joints are securely riveted. The hoppers are of heavy sheet iron, the bottom being formed by a rubber belt passed over pulleys. When the power is thrown on by a lever, this belt acts as a conveyor, throwing out the respective materials through offices provided with adjustable gates to show the surface inches of the openings when set at any given point. By regulation of these gates, the exact proportion required can be obtained and varied at will.

The hoppers are equipped with rotary cork screw agitators which prevents bridging, and forces the material toward the gates. The interior surface of the revolving drum is longitudinally ribbed by means of which the materials are tumbled over and over while still dry as the drum rotates, gradually approaching the discharge end. When within 15" of the lower end of the drum, a sprinkling device wets to any consistency desired, the flow of water in greater or less quantity, being regulated by a valve.

The height of the hoppers on this machine are 50" from the ground, the discharge 23" from the ground. The engine on this mixer is rated at



No. 8-A-94.

2 to 2½ H. P., and this size is ample for the purpose. This is a thoroughly reliable engine of the 4 cycle type, is AIR COOLED, GEARLESS, fitted with VARIABLE COMPRESSION, mechanical ignition, and is a most economical engine in the use of fuel.

POWER. The Marvel Non-Heating Air Cooled Gasoline Engine is used to operate the **Little Dandy Mixers**, and the 2 to 2½ power size is ample for the purpose.

THE ENGINE. This is a thoroughly reliable engine of the 4 cycle type, possessing features found in no other engine. IT IS AIR COOLED, GEARLESS, has a VARIABLE COMPRESSION, mechanical ignition, and is **more economical in the use of fuel** than any other engine made.

First. The arrangement of the inlet and exhaust valves is such that the incoming gas completely surrounds the exhaust valve, not only serving to cool the latter, but to warm the incoming charge.

Second. The use of an auxiliary exhaust, whereby nearly the whole of the exhaust gas is discharged through a free passage, thus avoiding the heating of the exhaust valve proper.

Third. By the application of our arrangement for obtaining a VARIABLE COMPRESSION, we have less interior surface of the cylinder exposed to the heating. By means of extremely thin, and exceptionally deep corrugations on the exterior of the cylinder, we obtain a maximum of radiating surface.

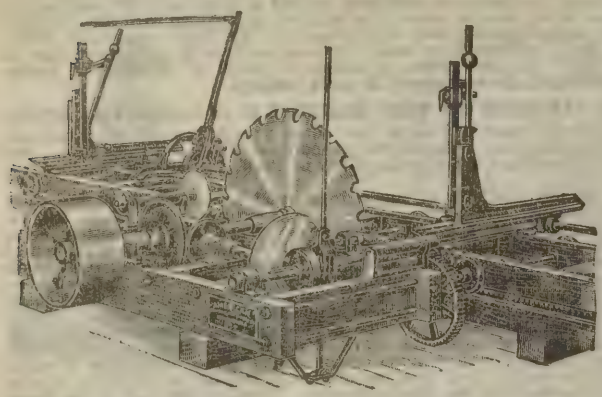
Fourth. By means of the VARIABLE COMPRESSION, the expansion of the gas is carried to a greater degree, thereby utilizing more of the energy, and discharging at a lower temperature.

Fifth. This engine is eliminated of the use of gears, by applying an eccentric on the crank shaft, which operates the exhaust valve. This arrangement when once set, makes it impossible for the novice to change the timing of the valve mechanism, which frequently occurs, when gears are used, and causes trouble. The use of this device results in a practically NOISELESS ENGINE, and also a much greater regularity of governor. If you have not seen these machines in operaton you should do so at once. You should have one now, for otherwise you will never truly realize what the **Little Dandy** can do for you. If we have not made ourselves perfectly clear on these engines and mixers, kindly write us for further information, and do not hesitate to ask all the questions you wish on same, and we will try and give you correct answer by return mail, also quote prices and terms.

REPAIR PARTS FOR THESE MIXERS CAN BE HAD FROM US. LET US HAVE YOUR ENQUIRIES.

AMERICAN SAW MILL MACHINERY

The Synonym of Merit, Worth, Advancement, Improvement.



Every machine is set up and carefully tested, and when it leaves our factory is known to be complete and in proper working condition; hence, if properly set up and operated without prejudice, we warrant them to give entire satisfaction.

If a machine should fail to start off satisfactorily, it is generally because the operator is not familiar with it, and it is not properly set up and adjusted. In such cases, if the purchaser will notifiy us and state as near as possible the trouble, we can generally give advice necessary to remedy the difficulty.

The Husk Frame and Carriage are made of the best selected Southern yellow pine.

The Mandrel is made of the best grade of steel, turned and ground perfectly true, with well proportioned collars. The lug pins are fitted in an improved manner so that they can easily be removed right at the mill if they should become sheared off.

The Nut is so made that the threads cannot be stripped or bruised and the saw can be easily removed without moving the guide.

Saw Guide is of improved design, with large throat, can be used either right or left hand, is adjustable while saw is in motion, and can be easily thrown out of the way for removing or changing saws.

Our Variable Friction Feeds are the simplest, yet most durable, perfect and effective ever devised. It is positive and responds instantly to the slightest movement or pressure of the feed lever. It is this feature which distinguishes our mills from all others, makes them so very light running and adapted to use with small power of all kinds. The sawyer with one hand, has absolute control of the mill at all times, can vary the feed to correspond with the power or the size and quality of timber to be cut, easing down for a hard place and instantly increasing the feed again as quick as it is past.

Head Blocks and Knees. Our head Block Bases are cast in one piece, and in such form as to insure the greatest strength. They are accurately planed to gauges and the knee carefully fitted so that it will slide freely, yet without lost motion. They open for actual use full width as per specifications. They are heavy and strong, have graduations full length and provided with convenient setting gauge.

The Set Works. Our "Ideal" set works and quick receder are now used on our Standard Mills Nos. 1 to 5, inclusive. The set works are guaranteed accurate and positive, and the receder, operated by the same lever, is of immense value as a time saver. A straight pull for either setting or receding. No tiresome twisting motion for releasing pawls.

SPECIFICATIONS OF No. 1 STANDARD SAW MILL
No. 8-A-4.

Husk frame, 7′ long 3′ wide; timbers, 3½″x7½″.
Mandrel, 2 3-16″ diameter, 4′ 4″ long with pulley 20″x10″.
Length of carriage, 16′, width, 26″.
Length of rack beam, 22′.
Size of carriage timbers, 3½″x5½″.
Number of trucks, 4, with 6″ wheels and 1¼″ axles.
Length of steel track, 40′.
Number of head blocks, 2, with dogs.
Head blocks, open, 34″.
Length of set shaft, 14′.
Weight of mill, 2,100 lbs.
Weight of wood track stringers, 450 lbs.
Capacity, 7,000 to 8,000 feet per day.

SPECIFICATIONS OF No. 2 STANDARD SAW MILL
No. 8.A-5.

Husk frame, 7′ 6″ long, 3′ 6″ wide; timbers, 3½″x9½″.
Mandrel, 2 5-16″ diameter, 5′ long, with pulley 20″x10″.
Length of carriage, 20′; width, 30″.
Length of rack beam, 26′.
Size of carriage timbers, 3½″x5½″.
Number of trucks, 6, with 7″ wheels and 1¼″ axles.
Length of steel tracks, 48′.
Number of head blocks, 2, with dogs.
Head blocks, open, 38″.
Length of set shaft, 16′.
Weight of mill, 3,000 lbs.
Weight of wood track stringers, 550 lbs.
Capacity, 10,000 feet per day.

SPECIFICATIONS of No. 3 STANDARD SAW MILL
No. 8 A-6.

Husk frame, 8′ long, 4′ wide; timbers, 4½″x11½″.
Mandrel, 2 7-16″ diameter, 5′ 6″ long, with pulley 20″x 12″.
Length of carriage, 24′, width, 36″.
Length of rack beam, 32′.
Size of carriage timbers, 4½″x6½″.
Number of trucks, 6, with 8″ wheels and 1 7-16″ axles.
Length of steel track, 56′.
Number of head blocks, 2, with dogs.
Head blocks, open, 44″.
Length of set shaft, 20′.
Weight of mill, 3,900 lbs.
Weight of wood tracks stringers, 650 lbs.
Capacity, 12,000 feet per day.

SPECIFICATIONS of No. 4 STANDARD SAW MILL
No. 8-A-7.

Husk frame, 8′ 6″ long, 4′ wide; timbers, 4½″x11½″.
Mandrel, 2 11-16″ diameter, 5′ 6″ long with pulley 20″x12″.
Length of carriage, 24′, width, 40″.
Length of rack beam, 32′.
Size of carriage timbers, 5½″x5½″.
Number of trucks, 6, with 10″ wheels and 1 7-16″ axles.
Length of steel tracks, 56′.
Number of head blocks, 2, with dogs.
Head blocks, open, 48″.
Length of set shaft, 20′.
Weight of mill, 4,500 lbs.
Weight of wood stringers, 650 lbs.
Capacity, 15,000 to 20,000 feet per day.

SPECIFICATIONS OF No. 5 STANDARD SAW MILL
No. 8-A-8.

Husk frame, 9′ long, 5′ wide; timbers, 5½″x11½″.
Mandrell, 2 15-16″ diameter, 6′ long, with pulley 24″x14″.
Length of carriage 24′, width, 44″.
Length of rack beam, 32′.
Size of carriage timbers, 5½″x7½″.
Number of trucks, 6, with 12″ wheels, 1 11-16″ axles.
Length of steel track, 56′.
Number of head blocks, 2, with dogs.
Head blocks, open, 52″.
Length of set shaft, 20′.
Weight of mill, 6,000 lbs.
Weight of wood track stringers, 1,000 lbs.
Capacity, 20,000 to 25,000 feet per day.

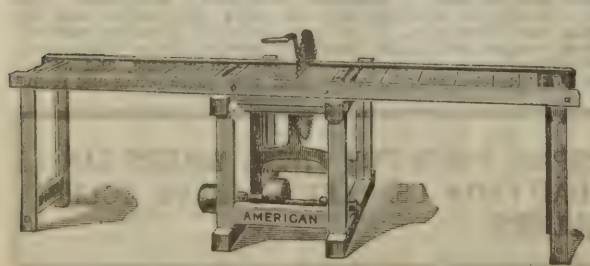
AMERICAN "JUNIOR" GANG EDGER.

SPECIFICATIONS.

Table rolls of cold steel with iron bearings.
Steel mandrel, 1⅛″ with babbitted boxes.
Driving pulley, 10″ diameter, 8″ face; speed about 1,500 revolutions per minute.
Feed pulleys, 18″x4″.
Driven feed rolls, 3″ diameter. Pressure rolls, 5½″ diameter
Saw, 16″ diameter with 4″ hole.
Extreme length and width, 18′3″ by 47″.
Extreme width between guides, 33″.
Greatest distance between saws (3 saw machine) 19″.
Greatest distance between saws (2 saw machine) 23″.
Greatest distance between stationary and adjustable saw, 2″.
Weight, single roll machine, net, 1,425 lbs. Gross, 1,700 lbs.
Weight, double roll machine, net, 1,575 lbs. Gross, 1,850 lbs.
Cubic contents boxed for export, 72 cubic feet.
State whether single or double pressure roll is desired and whether a 2 or 3 saw edger; can furnish without saws or with solid or inserted tooth saws.
In ordering, specify if a right or left hand machine is wanted.

No. 8-A-9.
FULL LENGTH VIEW.
Shifting levers are securely held in position by ratchet.

AMERICAN "PERFECTION" TABLE CUT-OFF-SAW.



No. 8-A-10.

Every well equipped saw mill, planing mill, or other wood working establishment must have one or more cut-off saws, either of the swinging or table type.

To meet the increasing demand for a low priced, yet good machine of the latter type, we offer our "Perfection" Table Cut-off Saw shown in the accompanying cut, which has been carefully designed and is well made throughout of best materials and workmanship.

The frame is made of seasoned hard wood strongly bolted together, the table is 20″ wide and 10′ long, being fitted with four 3″ idle rolls and a guide rail at the rear providing for easy handling of timber and accurate cutting.

The mandrel is of best grade cold rolled steel, runs in babbitted boxes and is carried in a strong, solid cast iron swinging frame which is trunnioned to the countershaft below, thus insuring rigidity and durability. Any size saw can be used from 18″ up to 24″.

Timbers in main frame, 3½″x3½″.
Timbers in table frame, 2″x4″.
Mandrell (steel,) 1⅛″ for saws with 1¼″ hole.
Mandrel pulley, 4″x4″.
Size of saw furnished, 20″.
Pulley on countershaft, 6″x6″. Speed, 1,500 rev.
Floor space required, 4′x10′.
Weight, net, 460 lbs.; gross, 575 lbs.
Packed for export, one crate 28 cubic feet.

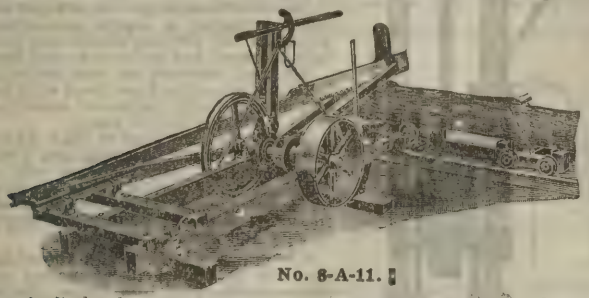
"American" Champion Friction Feed Drag Saw.

This machine, as its name indicates, is the Champion among Drag Saws, having decided advantages over all others on the market. It is strong and durable, simple in construction, easy to operate and a most rapid worker.

The main frame is 26" wide, 8½' long and is made of 3½x5½" seasoned hard wood strongly framed together, securely bolted and braced.

The track is 27" wide, 16' long, made of 2½x4" timbers well framed together.

The Friction Feed is very simple, yet positive and effective. It will start, stop or reverse, instantly by very slight motion of the feed lever, without any effort on the part of the operator. It will not stick or get out of order and will last for years. This enables the operator to feed the logs ahead or back at will as much or little as desired, and stop at any point without running back or losing time. This feature alone puts the



No. 8-A-11.

"Champion" ahead of any other Drag Saw in the market, yet it has every practical advantage that can be desired in a machine of its kind.

The Balance Wheel is large and heavy, and counter balanced, imparting a strong steady motion, and is arranged for changing the stroke from 16" to 20" or 24".

The Log Truck is very substantial, having steel axles, and two dogs for securely holding the logs.

The Saw is raised with one hand and the friction feed operated with the other, thus changing and setting for a new cut without slowing down or stopping. A strong, reliable saw guide is also provided.

Unless otherwise ordered each machine is furnished complete with 24x6" driving pulley, log truck, power rolls, tumbling rod with two Universal Couplings, 16' of track and one 5' 6" saw.

Tight and loose pulleys can be furnished if so desired at small additional price.

When operated by sweep horse power the driving shaft is fitted with Universal Coupling for tumbling rod instead of driving pulley.

We can supply this Drag Saw without power feed and with a Ratchet Lever to operate the feed rolls, thus making a most desirable hand feed machine at very low price.

Capacity: 30 to 40 cords of wood per day, depending on kind of wood, power and speed.

Power required: Two to four horse power will operate to good advantage; more power will give machine greater capacity.

Speed recommended: 125 to 175 strokes per minute.

Length of stroke may be adjusted to 16", 20" or 24".

Weight complete, 1,150 pounds. Weight packed for shipment, 1,300 pounds. Weight packed for export, 1,450 pounds; 51 cubic feet.

PRICES ON APPLICATION.

"American" Combined Lath Mill and Bolters.

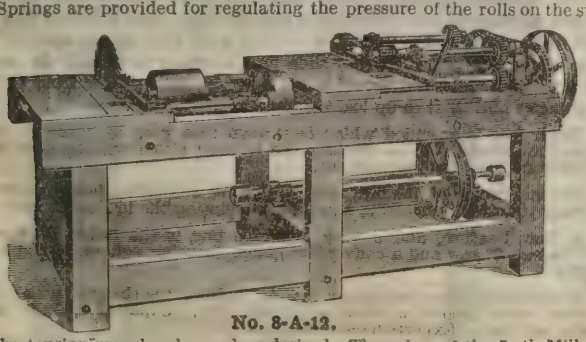
This cut shows our Combined Gang Lath Mill and Bolter which is one of the best machines of the kind on the market, and is very popular with saw mill men in every part of the country.

The frame is made of hard wood, mortised and tenoned, and securely bolted together, making it very substantial and durable.

The Arbors are of best grade steel, run in self-oiling boxes which are cast solid with the iron husk frame, to which all the working parts are attached, thereby keeping everything in line, and avoiding the heating of the bearings.

The Lath Mill is fitted with two sets of power feed rolls, one set in front and one behind the saws.

Springs are provided for regulating the pressure of the rolls on the stock,



No. 8-A-12.

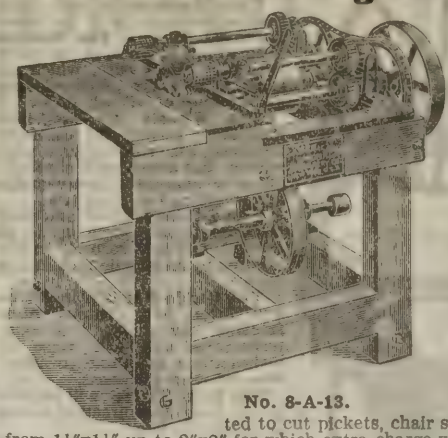
and the tension may be changed as desired. The arbor of the Lath Mill may be fitted for any number of saws, from three to six, as may be ordered, but usually only three saws are furnished.

Changing Saws is very easily and rapidly done by removing a section of the table.

The Bolter is furnished with one wide Feed Roll. **The Guide** is adjustable, and can be instantly set for any width required. Pressure Roll furnished for Bolter when desired at small additional cost.

Frame, 8' long, 37" wide, 27" high. Lath saws, 10". Bolter saws, 22".
Driving Pulleys on both mandrels, 8"x8".
Speed of lath saws, 2,700; bolter saw, 1,400.
Weight of combined machine, net, 1,050 lbs.
Can furnish the above machine complete with 3, 4, 5 and 6 Saws and 1 Bolting Saw.

"American" Gang Lath Machine.



No. 8-A-13.

This cut shows our Improved Gang Lath Mill, which is the same construction as the combined machine without the Bolter.

The Mandrel is of the best grade steel, turned and polished, and runs in babbitted boxes and may be fitted for any number of saws, from three to six as may be ordered, but usually only three saws are furnished.

Springs are provided for regulating the pressure of the rolls on the stock, and the tension may be changed as desired.

Changing Saws is very easily and rapidly done by removing a section of the table.

Machine can be fitted to cut pickets, chair stock or any small squares from 1¼"x1½" up to 2"x2" for which extra charge will be made.

DIMENSIONS.

Frame, 37" long, 37" wide, 27" high
Lath Saws, 10".
Driving pulleys on mandrel, 8"x8".
Speed of lath saws, 2700.
Weight of machine, net, 550 lbs.
Weight packed for export, gross, 700 lbs.
Cubic measurement, about 25 cubic feet.
Capacity 30,000 to 40,000 laths per day.
Can furnish with 3, 4, 5 or 6 saws.

"American" Wood Splitter or Power Axe.

This cut represents our wood frame Power Wood Splitter, but when desired we build the machine with iron frame.

It is designed to withstand the strains to which such a machine is necessarily subjected, and will soon pay for itself in any wood yard or kindling wood factory where much splitting is to be done. Hard, knotty maple, oak, pine, or other kinds of wood can be easily split. A single machine will split 4 or 5 cords per day.

The Wood is held in an upright position by the hands of the operator, the lower end resting on the bed plate, and merely turned around as the splitting is done. It can be erected on any strong floor or timbers embedded in the ground.

The Bed Plate has ample adjustment giving the machine a range for splitting wood 8" to 18" long.

The Crank Shaft is made of steel and runs in babbitted self-oiling boxes. The driving pulley weighs about 250 pounds and has heavy rim so as give plenty of momentum. It is 32"x 6", and should run 150 revolutions per minute. One to two horse power required to operate successfully.

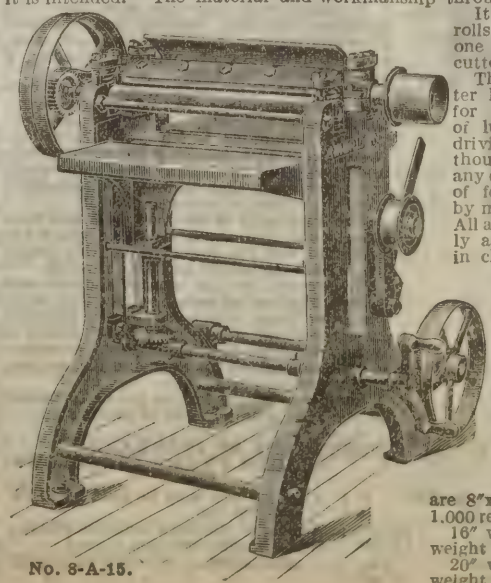
Net weight 1,230; gross weight, 1,450; cubic contents, 30 c. f.

Can furnish single or double machine.

No. 8-A-14.

"American" Jewel Planer.

This planer was designed to meet the requirements of those desiring a good but light and low priced single surfaced planer. It is lighter than our Pony Planer and possesses many of its good points and is amply heavy for the work it is intended. The material and workmanship throughout are first-class.



No. 8-A-15.

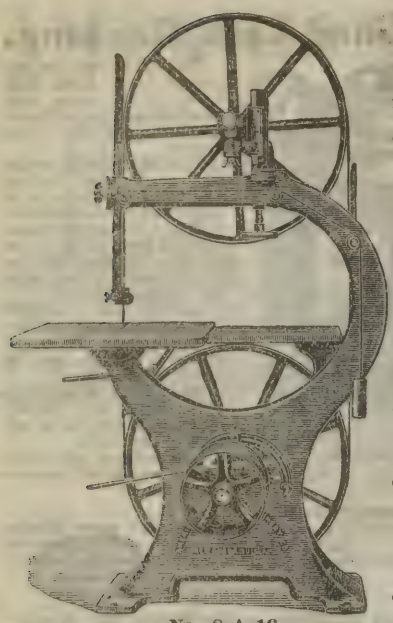
It has two driven feed rolls, one in the front and one in the rear of the cutter head.

The position of the cutter head is not changed for different thicknesses of lumber so that the driving belt remains tight though it is belted from any direction. Two speeds of feed are provided for by means of cone pulleys. All adjustments are quickly and easily made and in changing for different thicknesses of planing, no bolts or screws have to be loosened or tightened. It works hard or soft wood equally well. Built in two sizes to plane 16" and 20" wide and 6" thick. Furnished either with or without countershaft. Tight and loose pulleys on countershaft are 8"x4" and should run 1,000 revolutions per minute.

16" with Counter Shaft: weight 637 lbs.

20" with Counter Shaft: weight 700 lbs.

"American" Band Saw.



No. 8-A-16

This Machine is built from new patterns and is of the most approved design. **The Frame** is cored out and cast in one piece with very broad base, which insures stiffness, good floor support and absence of vibration.

The Wheels are cast iron accurately turned and carefully balanced, with rims covered with rubber, and are so made throughout as to guarantee them remaining round and running true.

The Tables are iron and may be tilted to any angle up to 45 degrees, and held securely in any position by an ingenious clamping device.

The Guide Bar is planed true and fitted with patent **non-friction** saw guide. It is counterbalanced and will raise 14 inches above the table to admit work of that thickness.

The Belt Shifter will receive a belt from any direction above or below the floor.

Tight and loose pulleys are 12″x4″, and should run 400 revolutions per minute.

36″ Band Saw. Weight 1,100 lbs.
26″ " " " " 500 lbs.

"American" Single Saw.
HAND EDGER.

No. 8-A-17

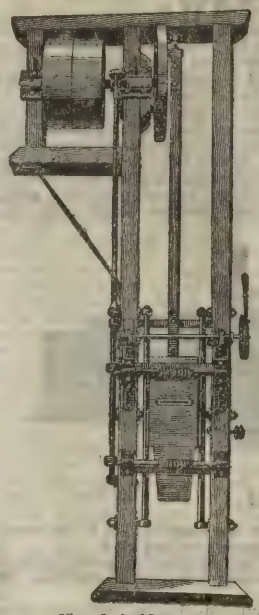
This machine is very valuable in properly edging and hearting lumber for the market, thus making it grade higher and bring a better price. It is provided with an adjustable ripping gauge, and may be used to great advantage in making pockets, slats, shingle-lath, and doing other kinds of ripping.

The carriage will take a board 16′ long, and is fitted with four sets of trucks mounted on steel axles, running in solid metal boxes. Substantial iron track is fitted to the ways. Furnished with one 16″ solid saw.

DIMENSIONS:

Main table, 2′x4′, fitted with gauge.
Track ways, 32′ long, 22″ wide.
Carriage, 14′ long, 13½″ wide.
Floor space required, 32′x4′6″.
Steel axles, ¾″ diameter. Trucks, 3¼″ diameter.
Mandrel, 1 7/16″ diameter—Hole in saw, 1¼″.
Driving pulley, 6″x6″. Speed, 1,500 R. P. M.
Weight, net, 865 lbs.; gross, 1,150 lbs.; cubic measurement, 42′.

"American" Excelsior Cutting Machines.



No. 8-A-19

These machines are built throughout of the best obtainable materials and in the most thorough manner. They are heavy, strong, durable and embody every improvement which the experience of practical Excelsior makers and the best experts in this line in the United States have demonstrated as most desirable and necessary in such a machine. They will work equally well hard or soft woods.

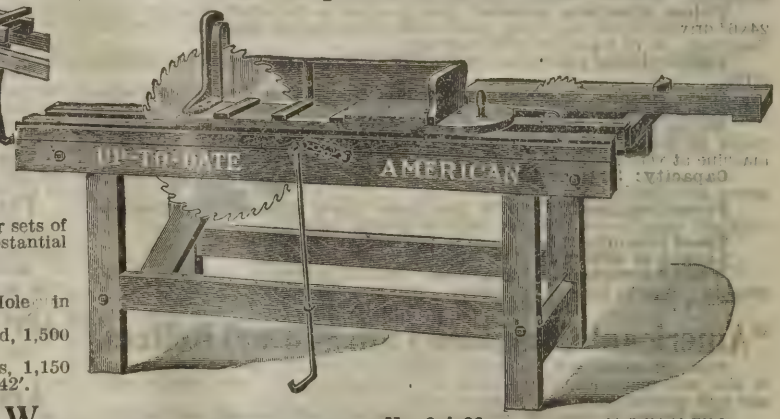
The wood frames are constructed of best selected timber of ample proportions to withstand the working strains and are carefully mortised and securely bolted together.

The main bearings are very heavy, of the bracket chain-oiling type, lined with babbitt and provided with improved screw adjustment for taking up the wear.

The Guides are steel of such form as to insure the greatest strength and accuracy. These together with the feed roll, cutter plate and other working parts are mounted on a substantial self-contained cast iron frame, thus securing accurate alignment, rigidity and perfect cutting.

The frame which carries the adjustable feed roll is planed to accurately fit the slides on the cast iron frame, preventing side motion and causing the spurs to cut in the same slit in the wood every stroke and insuring a clean, uniform and superior grade of Excelsior and making it possible to produce the finest grades of Wood Wool.

"American" Up-to-Date Shingle Machines.



No. 8-A-20

To meet the demand for a reliable yet low priced Shingle Machine, suitable for small mills; farmers and others having light power, we have brought out our **"UP-TO-DATE"** Shingle Machine, shown in the accompanying cut. It is thoroughly well made throughout of the best materials.

The carriage is very substantial and provided with a strong iron yoke at the forward end. The underside is fitted with gibs, planed to accurately fit the iron track on which they slide and to which they hold the carriage securely. These gibs are slotted to provide adjustment for cutting thick or thin shingles and to take up lost motion.

Power feed is provided which is thrown into gear by pressure of the foot on the stirrup, and the machine can be used either with hand or power feed without change in adjustment.

The mandrel is of the best steel, with long, self-oiling boxes, connected by heavy yoke with adjusting screw for regulating the lead of the saw.

A New Feature, and a very desirable one, is the handy little edger, which has an 8″ saw and a convenient gauge, insuring square, straight-edge shingles.

A Special Carriage and larger saw for bolting the shingle stock can be furnished, when desired, at small additional cost. Capacity 5,000 to 10,000 shingles per day. Experts have done more.

The machine will handle square, round or split blocks and does not require an experienced operator.

Furnished complete, with 24″ shingle saw, 8″ edger saw and feed and edger belts.

DIMENSIONS:

Frame, 7′ long, 2′ 5″ wide. Carriage, 3′ 8″ long, 13″ wide. Power feed 24″. Main Mandrel, 1 7/16″. Driving pulley, 6″x8″. Weight, with edger, net, 625 lbs.; gr. 750 lbs. Power required, 4 to 10 H. P. Speed of 24″ saw about 1,200 revolutions. Can furnish with or without edger. Bolting carriage extra. 36″ bolting saw extra.

"AMERICAN" SWING CUT-OFF SAW.

No. 8-A-18

Can furnish Style "A" plain as shown in cut without saw or style B with counterbalance without saw.

In this Spring Saw we have combined lightness, strength, rigidity, and low cost, thus producing a machine that will meet the requirements of everyone needing a cut-off saw of this type.

The frame is a combination of cast iron and steel channels, so braced as to prevent swinging or twisting. It swings on independent trunnions which are attached to the hangers, thus relieving the countershaft and bearings of all strains. The countershaft is so arranged that it may be suspended from the ceiling or fastened to wall.

The mandrel is of the best steel, and runs in self-oiling babbitted bearings, which are cast solid with the lower frame, thus insuring perfect alignment and easy running.

To provide for the wear of the saw and permit the use of larger or smaller saws, the lower frame which carries the mandrel has a vertical adjustment of 4″, which is a very valuable feature. Ample provision is made for taking up wear and lost motion in all working parts.

Shorter or longer frames can be furnished to meet the requirements of purchaser.

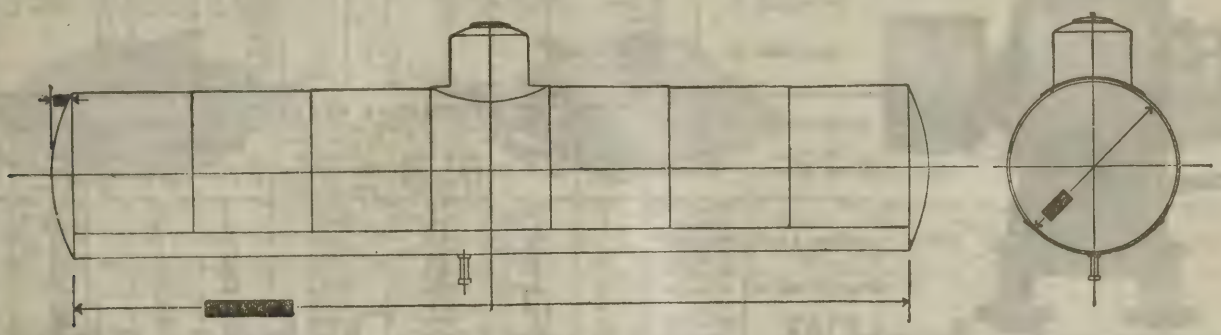
DIMENSIONS OF STANDARD LENGTH FRAME AS FOLLOWS;

From countershaft to mandrel 6′
Diameter of countershaft..... 1 11/16
Driving pulley ..... 16″x6″
Tight and loose pulleys..... 10″x6″
Revolutions per minute..... 650
Mandrel, 1 7/16″, with pulley.... 6″x6″
Any size saw may be used up to 24″ with 1¼″ hole.
Net wt. of standard machine 382 lbs.
Gross weight, 547 lbs. Boxed dimensions.....6′8″x2′9″x1′1″

800 STEEL STORAGE TANKS

6,000 to 9,000 GALLONS CAPACITY

No. 8-A-95. These Tanks came off of railroad tank cars, that were used for transportation purposes on all railroads. They are double riveted, well braced, made of ¼ inch steel and built for hard and unusually severe service. They were sold to us because they were found to be of smaller capacity than the present requirements of the company using them, and this is the only reason they are now offered. They are practically as good as new, as every tank before shipment is tested, repainted, carefully inspected, and, in fact, put in absolutely guaranteed first-class condition for storage purposes.



Each tank has a dome of standard size proportioned to its dimensions; also a 15 inch screwed manhole on top and 3 inch outlet on the bottom which is securely capped. They are suitable for the storage of oils, water or liquids of any kind.

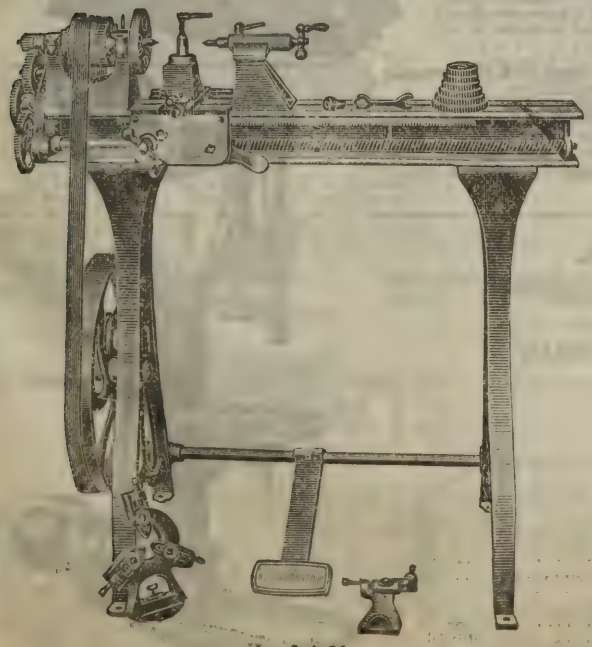
Some of these tanks are equipped with heater coils. We also furnish you with tanks of larger and smaller dimensions, and will be pleased to hear from you in regard to your requirements in this line.

We have these tanks located at Whiting, Indiana; Lima, Ohio; Cleveland, Ohio; and Buffalo, New York; dimensions of which are 25 feet long by 76 inches diameter, approximating 6,000 to 6,200 gallons each.

IMPROVED STANDARD

BACK GEARED SCREW CUTTING ENGINE LATHE

FOOT OR POWER



No. 8-A-91.
Cut Shows Size 9 inch Swing x 25 inch between centers.

This Lathe is adapted for jobbing and manufacturing shops, gunsmiths, electricians, model makers, inventors, etc.

It cuts threads from 3 to 40 per inch, right or left hand, and by compounding gears, threads may be cut up to 120 per inch.

Swings 9 inches over bed and 25 inches between centers.

Bearings are 1 3-16 inch in diameter, 2½ inches long, and run in gunmetal boxes, provision being made to take up wear.

Head stock has hollow steel spindle with ⅝ inch, opening its entire length.

Tail stock has steel spindle, 1 inch diameter, reamed to No. 1 Morse Taper, with self discharging centers.

Bed is broad and heavy. Other parts being proportionately heavy, will work to its full capacity without trembling or jarring.

Planed parts are scraped to a bearing. All screws and working parts are covered to keep off chips and dirt.

Rack and gears are cut from steel by automatic machinery which insures smooth running.

With each lathe we furnish a face plate, two centers, wrenches and set of change gears.

If lathe is ordered with one single attachment (foot or power) there is no extra charge; but if both attachments are wanted there is an extra charge of $8.00.

We guarantee our lathes to be first class in every particular and agree to replace, free of charge, any parts found defective in either material or workmanship. The above guarantee covers a period of one year from date of delivery.

Size	9 x 25
Net weight	350 pounds
Gross weight, boxed for export	425 pounds
Size of box for export	16 cubic ft

"Willey" Type "W" Direct Current, Multipolar Motors and Generators

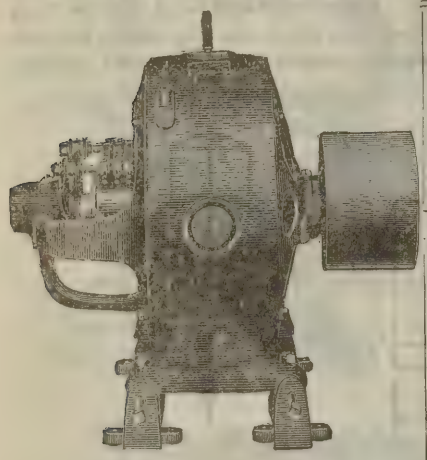
These machines are our latest and most improved and are fitted with self-oiling bearings, self-feeding carbon brushes and are complete with pulley, belt tightener, rheostat for generators and starting box for motors.

They are guaranteed against all mechanical and electrical defects for a period of one year. They are further guaranteed to operate up to their full rated capacity without undue heating or sparking at the brushes.

The increase in temperature above that of the surrounding atmosphere, will not be greater than 40° Cent. after a full load run of ten hours. It will not be necessary to shift brushes for a change in load from no load to full load.

Machines are fitted with standard size pulleys and any changes therein will be charged for. Such charge being in accordance with the additional cost of the pulley furnished.

Machines can be furnished for either belt driving or direct connection. Prices include delivery F. O. B. Cars Louisville, Ky.



TYPE "W" MULTIPOLAR MOTORS.

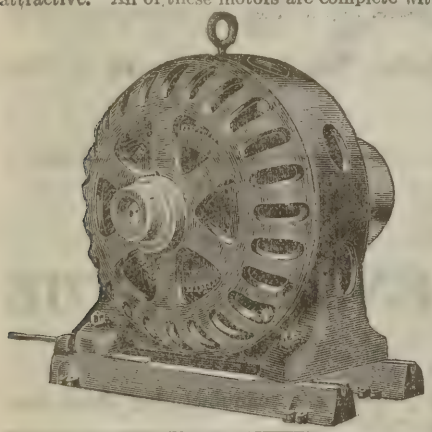
Voltage Code Word.	Code Word.	Size No.	Rated H. P.	Approx. Number Revs. per Min.	Dia. and Face of Pulley in In.	Weight in Pounds.
	Wile	⅛	¼	1600	3 x2	185
	Wilful	⅜	½	1500	3½x2½	275
	Will	¾	2	1500	4 x3	325
Paint, 110 V.	Willow	0	3	1500	6 x3	400
	Win	1	6	1500	7 x4	670
	Wince	2	10	1250	9 x5	1060
Vane, 220 V.	Wind	3	15	1250	10 x6	1150
	Window	4	20	1200	11 x6	1375
	Wink	5	25	1100	12 x8	1835

TYPE "W" MULTIPOLAR GENERATORS.

Voltage Code Word.	Code Word.	Size No.	Rated K. W.	No. 16 C. P. 55 Watt Inc'd Lamps 125 Volts.	Approximate Number Revolutions per Minute.	AMPERES 125 V.	AMPERES 250 V.	Diameter and Face of Pulley in Inches.	Weight in Lbs.
	Wall	⅛	½	9	1900	4	2	3 x2	185
	Wallet	⅜	1	18	1700	8	4	3½x2½	275
Painter, 125 V.	Wallop	¾	1½	27	1500	12	6	4 x3	325
	Walnut	0	2½	40	1500	18	9	6 x3	400
	Waltz	1	5	90	1500	40	20	7 x4	670
Vainly, 250 V.	Wamble	2	8½	150	1250	66	33	9 x5	1060
	Wan	3	11½	210	1250	92	46	10 x6	1150
	Wander	4	15	270	1200	120	60	11 x6	1375
	Wane	5	20½	360	1100	164	82	12 x8	1835

MOTORS ALTERNATING CURRENT, 220 VOLT, 60 CYCLE, 3 PHASE.

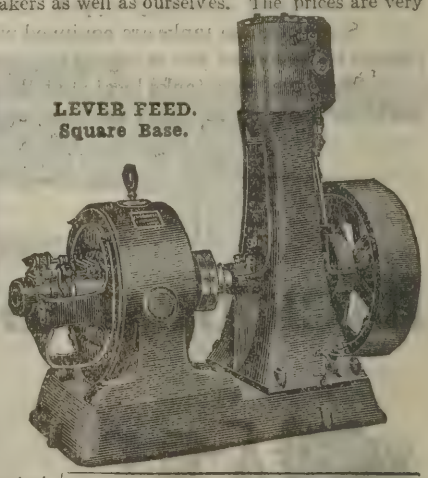
We illustrate herewith Alternating Current Motors up to 7½ horse power. These are the Standard Willey Motors and are considered one of the best on the market. They are all strictly brand new and fully warranted and guaranteed by the makers as well as ourselves. The prices are very attractive. All of these motors are complete with Starting Box, Sliding Base and Driving Pulley.



H. P.	R. P. M.		H. P.	R. P. M.	
¼	1800	$ 33.00	¼	1200	$ 50.00
1	1800	46.00	1	1200	55.00
2	1800	55.00	2	1200	68.00
3	1800	65.00	3	1200	80.00
5	1800	70.00	5	1200	95.00
7½	1800	130.00	7½	1200	150.00

H. P.	R. P. M.	
¼	900	$ 40.00
½	900	57.00
1	900	75.00
2	900	77.00
3	900	95.00
5	900	130.00
7½	900	200.00

LEVER FEED. Square Base.



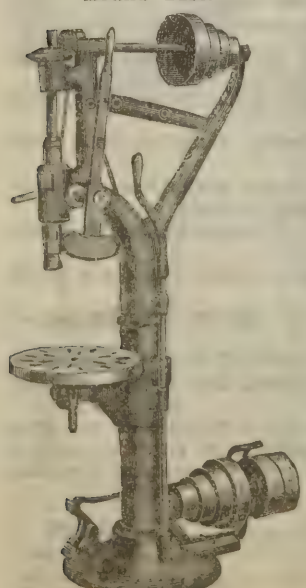
"WILLEY" DIRECT CONNECTED GENERATING SETS.

The Generator.

In the type "W" machines the magnet frames are of a high grade cast iron with pole pieces of the best quality of steel cast in one piece with the magnet cores and having a turn shank fitting a board seat in the iron magnet yoke.

In the type "C" machines the magnet frames are of soft cast steel in which are provided machined seats to which are bolted laminated steel pole pieces.

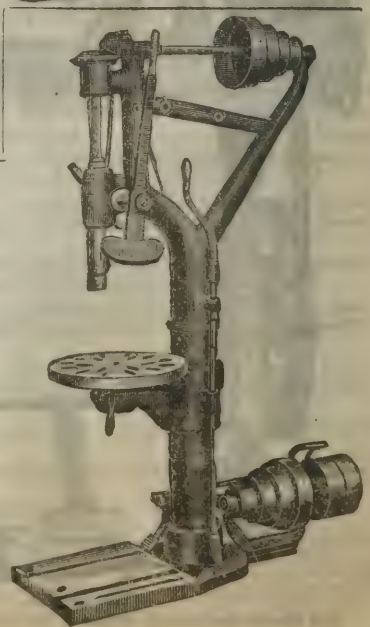
LEVER FEED. Round Base.



The field coils and armature windings are form wound and the greatest care is taken to provide for proper insulation and ventilation.

The armature cores are built up of the best quality of annealed sheet iron discs, assembled on spiders, with hollow cores for air circulation.

The commutators are made of hard-drawn copper bars, insulated with the highest grade of mica, and machined perfectly true and smooth. The contact surfaces are of ample size to carry the current without undue heating.



Drill Presses.

In addition to our very large line of second-hand Tools we carry quite a number of strictly brand new Drill Presses, as follows:

DIMENSIONS

OF SILVER'S NEW POWER DRILLS.

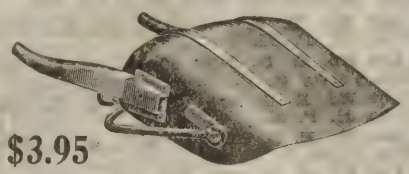
Height	68½ in.
Diameter Column	5½ "
" Table	16 "
" Spindle	1⅝ "
Vertical Travel of Spindle	10 "
" " Table	16 "
Spindle bored for No. 3 Morse Tapper.	
Distance from column to center of table	10½ "
Distance from spindle to base	41½ "
Distance from spindle to table	26½ "
Diameter of Crown Gear	5⅛ "
Diameter of Bevel Pinion	3½ "
Diameter Large Pulley on Cone	9½ "
Diameter Small Pulley on Cone	4 "
Cone carries 2½ in. belt.	
Tight and loose pulleys	8x 2½ "
Floor Space—square base	46x16 "
Floor Space—round base	36x20 "
Write for special prices.	

$3.60 AND UP PERFECTION SOLID STEEL ROAD SCRAPERS

The Perfection Scraper is made of heavy hardened steel of the toughest quality and is shaped on a new scientific principle, which utilizes the great strength of this steel to the best possible advantage. Has no sharp curves, angles or overlaps. It is the easiest filling and easiest dumped scraper manufactured. The swivel by which the scraper is pulled works easily and allows the bowl to adjust itself to any unevenness in the ground without losing off dirt. The bowl which is long and deep is compact and rigid and has a large wearing surface and the workmanship is perfect in every detail. Fitted with steel bales having perfect working swivels, steel ears and handle pockets and hardwood handles. We furnish the Perfection Scrapers with either plain bottom, double bottom or with double runners.

Double runner scrapers are fitted with two steel runners 1¼ inches wide by ¼ inch thick.
The double bottom scrapers are made with a piece of heavy steel riveted to the bottom, thus protecting the wearing surface.
The plain bottom scraper has no runners or steel plates to resist wear.
No. 1 scraper has capacity of 7 cubic feet and weighs about 100 pounds.
No. 2 scraper has capacity of 5 cubic feet and weighs about 90 pounds.
No. 3 scraper has capacity of 3 cubic feet and weighs about 80 lbs.
Shipped direct from factory, Southern Michigan.

No. 4-A-1435. Size, No. 1, smooth bottom scraper. Price.....$4.25
No. 4-A-1436. Size No. 2, smooth bottom scraper. Price..... 3.95
No. 4-A-1437. Size No. 3, smooth bottom scraper. Price..... 3.60



No. 4-A-1438. Size No. 1, double runner, scraper. Price.....$4.50
No. 4-A-1439. Size No. 2, double runner scraper. Price..... 4.23
No. 4-A-1440. Size No. 3, double runner scraper. Price..... 3.95

No. 4-A-1441. Size No. 1, double bottom scraper. Price.....$5.00
No. 4-A-1442. Size No. 2, double bottom scraper. Price..... 4.65
No. 4-A-1443. Size No. 3, double bottom scraper. Price..... 4.35

Garden and Contractors' Wheel Barrows

PERFECTION GARDEN BARROW.

Made with steel legs and braces. Has the finest finish and is the most durable garden barrow ever manufactured. It is neat in design; handsomely painted and has selected hard wood handles. The frame is made of angle bar with the foot turned so that it will not injure the lawn. Frame and wheel are black japanned. The wheel is 16 inches in diameter tire is 1¼ inches wide by ¾ inch thick. Size of bottom is 21 by 27 inches, 12½ inches deep.
No. 4-A-1444. Price.....$2.40

STANDARD RAILROAD BARROW.

The barrow and tray are made of well seasoned hard wood lumber. Tray is bent and planed on both sides. The legs are bolted to the handles and extra well braced. The barrow is full size and fully guaranteed. Has 16 inch steel wheel, 1¼ inch on tread.
Weight, approximately 40 pounds.
No. 4-A-1445. Price.....$1.35

STEEL TRAY BARROW.

Is a strictly first class barrow, well made. The steel tray is made of No. 18 gauge steel and shaped like a wooden tray. It has, however, a greater advantage over the wood tray inasmuch as it will not warp or split and will give much more service than any wood tray barrow manufactured. The handles and frame are made of selected hard wood, extra well bolted. Has steel wheel 16 inches in diameter, 1¼ inch on tread.
Weight, 45 pounds.
No. 4-A-1446. Price.....$2.00

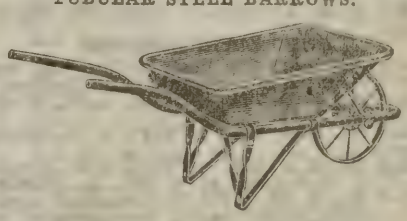
CONTRACTORS' BARROW.

We wish to call your particular attention to the construction of this barrow. As you will note from illustration it has steel legs and braces, hard wood handles, steel wheel and tray. Tray has a capacity of 4 cubic feet and is made of No. 14 gauge steel, with heavy turned edges. Four bolts through bottom, tray and frame.
Wheel is 16 inches in diameter, 1¼ inch on tread and is ¾ inch thick. The legs and braces are made of one solid piece of steel with solid steel foot bar, double braced. This is the most serviceable and durable contractor's barrow manufactured.
Weight, 50 pounds.
No. 4-A-1447. Price.....$3.25

CONCRETE BARROW.

The legs and braces are made of one solid piece of steel with solid steel foot bar, double braced. The barrow can be used for cement, concrete, ashes or coal. The steel tray has a heavy rolled edge, is 28 inches wide, 30 inches long, 10 inches deep at handle end and 19 inches deep at wheel end. Has heavy steel wheel 16 inches in diameter, 1¼ inch on tread, ¾ inch thick and is mounted on an improved axle bolt.
We guarantee this to be the best concrete barrow on the market.
Weight, 65 pounds.
No. 4-A-1448. Price.....$4.25

TUBULAR STEEL BARROWS.



For earth, sand, gravel and mortar. This barrow is extra well constructed. The tray is made of No. 16 gauge steel. The handles are in one piece, bent, forming a nose piece around the wheel. The wheel is mounted on a patent hook axle bolt. Size of tray: Length on top 34 inches; width on top 27 inches; depth at wheel 14 inches; depth at handle 6 inches; greatest depth, 14 inches.
Capacity, 3½ cubic feet.
Weight, 65 pounds.
No. 4-A-1449. Price.....$4.25

TUBULAR STEEL MINING BARROW.

This is the most excellent general purpose barrow on the market and is adapted to the heaviest work in mines, quarries, foundries and mills. The wheel is mounted on a patent axle bolt. The tray is bent and has heavy roll on edge and made of No. 14 gauge steel. Size of tray: length on top, 34 inches; width on top, 27 inches; depth at wheel, 14 inches; depth at handle, 16 inches; greatest depth, 14 inches.
Capacity 3½ cubic feet.
Weight, 70 pounds.
No. 4-A-1450. Price.....$4.50

TUBULAR STEEL COAL BARROW.

This barrow is extra well constructed and has a capacity of 250 pounds of coal. Has a steel wheel 16 inches in diameter, mounted on patent axle bolt. The tray is made of No. 14 gauge steel, designed so the load is well balanced over the wheel. The handles are in one continuous piece, forming a nose around the wheel. Size of tray: length on top, 38 inches; width on top, 30 inches; depth at wheel, 18 inches; depth at handle, 7 inches; greatest depth, 18 inches.
Capacity, 4 cubic feet.
Weight, 75 lbs.
No. 4-A-1451. Price.....$5.00

MISCELLANEOUS DEPARTMENT

The World's Greatest Bargain House should naturally accumulate a vast quantity of miscellaneous material which it is impossible to correctly list and classify. We have thousands upon thousands of these items and are giving you below a partial list taken at random from our stock. Many of these items are brand new, but having become slightly shopworn, we are forced to sell them at a sacrifice.

All second-hand material will be put through our shops, before shipment, carefully overhauled, and made practically as good as new. We will guarantee them all to be in perfect working order. Somewhere in this list you will find an item that is just what you are looking for. Be sure, therefore, to read very carefully every item given below and if you are interested, let us know. We will then quote a price that will be so low that you will be well repaid for your investment.

We know that we can save you money upon anything in this line and it will well be worth your time, when you are in the market for anything in this line, to advise us. We will then go over our stock and if we have anything to offer, you may rest assured our price will be way below the cost of manufacture.

In ordering or corresponding always mention Item and Lot No.

We will guarantee all the material in the following list to be in perfect working order, practically as good as new.

CORLISS ENGINES

Lot No. E. O. 550. 10 Pairs 24"x48" Wheelock Girder Frame Engines, H. P. 1,000.

Lot No. E. O. 307. 12"x30" L. H. Allis Girder Frame, H. P. 75.

Lot No. E. 5. 14"x42" L. H. Allis Girder Frame, H. P. 128.

Lot No. E. 39. 16"x42" Corliss Engine, manufactured by C. & G. Cooper Co.

Lot No. E. O. 255. 18"x42" R. H. Allis Girder Frame, H. P. 225.

Lot No. E. O. N. M. 24"x48" L. H. Allis Girder Frame, H. P. 350.

Lot No. E. O. 600. 28"x60" L. H. Hamilton Girder Frame, H. P. 650.

Lot No. S. E. 1. 10"x30" Brown Girder Frame.

Lot No. S. E. 2. 14"x36" Ohio Heavy Duty.

No. S. E. 3. 24"x48" Sioux City Heavy Duty.

AUTOMATIC ENGINES

We buy only the best in this line and will guarantee all our Automatic Engines.

Lot No. E. O. 164. 10"x16", L. H., Atlas-Auto., H. P. 50.

Lot No. E. O. 293. 10"x16", R. H., Atlas-Auto., H. P. 50.

Lot No. E. O. 287. 10"x16", C. C., Sweet-Straight Pipe-Auto., H. P. 50.....$150.00

Lot No. E. 27. 12"x15" Horizontal Auto-Side Crank Beck Engine, manufactured by Taylor Mfg. Co.

Lot No. E. O. 243. 12"x18", R. H., Atlas-Auto., H. P. 85.

Lot No. E. O. 129. 12"x20" L. H., Atlas Auto., H. P. 85.

Lot No. E. 57. 12"x20" Horizontal Auto. Atlas Engine.

Lot No. E. O. 276. 14"x24", R. H., Cummer-Auto., H. P. 125.....$150.00

Lot No. E. O. 85. 15"x15", C. C., Atlas-Auto., H. P. 150.

Lot No. E. 54. 15"x15" Auto. Horizontal, C. C. Engine, manufactured by Phoenix Iron Works.

Lot No. E. O. 154. 16"x18", C. C., Atlas-Auto., H. P. 162.

Lot No. E. O. 153. 16"x18", C. C., Atlas-Auto., H. P. 162.

Lot No. E. O. 257. 16"x24", R. H., Atlas-Auto., H. P. 210.

Lot No. E. O. 300. 18"x24", R. H., Atlas-Auto., H. P. 225.

Lot No. E. O. 289. 8"x14"x12" C. C. McEwen Tandem-Compound Auto., H. P. 50.

Lot No. E. 44. 1-9"x8" Automatic Engine (new).

Lot No. E. O. 162. 9"x12" R. H. Atlas Auto., H. P. 40.

Lot No. E. 9. 1-10"x14" Russell Auto. Engine, Side Crank, H. P. 30.

Lot No. E. 518. 1 Erie City 10"x15" Automatic C. C. Engine Drive.

THROTTLING GOVERNOR ENGINES

We pride ourselves upon our ability to overhaul engines and to make them practically as good as new.

Lot No. E. 516. 7"x8", C. C., Slide Valve Engine, H. P. 10.

Lot No. E. 256. 7"x8", C. C., Orr & Sembower Slide Valve, H. P. 10.

Lot No. E. O. 286. 7"x10", C. C., Richards Slide valve, new, H. P. 15.

Lot No. E. O. 285. 7"x10", C. C., Richards Slide Valve, new, H. P. 15.

Lot No. E. O. 283. 7"x10", C. C., Richards Slide Valve, new, H. P. 15.

Lot No. E. O. 281. 7"x10", C. C., Richards Slide Valve, new, H. P. 15.

Lot No. E. O. 279. 7"x10", C. C., Richards Slide Valve, new, H. P. 15.

Lot No. E. O. 280. 8"x12", C. C., Richards Slide Valve, new, H. P. 20.

Lot No. E. O. 193. 8"x12", C. C., Erie Slide Valve, H. P. 20.

Lot No. E. 221. 9"x12", C. C., Slide Valve, H. P. 25.

Lot No. E. O. 215. 9"x12", C. C., Erie Slide Valve, H. P. 25.

Lot No. E. O. 220. 9"x14", C. C., Slide Valve, H. P. 25.

Lot No. E. O. 228. 10"x12", C. C., Atlas Slide Valve, H. P. 40.

Lot No. E. O. 271. Throttling Governor Engine, 8"x12", C. C., Richards Slide Valve, new, H. P. 20.

Lot No. E. O. 274. Throttling Governor Engine, 9"x14", H., Slide Valve, H. P. 25.

Lot No. E. 516½. 10"x16" Furniss Right Hand, Box Bed, Throttling Governor, Slide Valve Engine.

Lot. No. E. O. 165. 11"x16", L. H., Atlas, Slide Valve, H. P. 50.

Lot No. E. O. 277. 11"x16", R. H., Atlas, Slide Valve, H. P. 50.

Lot No. E. O. 240. 11"x24", L. H., Fitchburg-Auto., H. P. 75.

Lot No. E. O. 13. 13"x12", C. C., Ball Slide Valve, H. P. 50.

Lot No. E. O. 267. 14"x18", L. H., Erie, Slide Valve, H. P. 80.

Lot No. E. O. 18. 14"x18", C. C., Nagle, Slide Valve, H. P. 85.

Lot No. E. O. 246. 14"x22", Self-Contained, Huston-Stanwood, Slide Valve, H. P. 100.

Lot No. E. O. 244. 14"x22", Self-Contained, Huston-Stanwood, Slide Valve, H. P. 100.

Lot No. E. O. 66. 16"x24", R. H., Atlas Slide Valve, H. P. 125.

Lot No. E. O. 40. 16"x24", R. H., Frazer & Chalmers, Slide Valve, H. P. 125.

Lot No. E. O. 142. 18"x30", R. H., Brownell, Slide Valve, H. P. 250.

VERTICAL ENGINES

Can you beat these figures? Not only are we selling our Vertical Engines at unheard of prices, but we are offering some of the best manufactured goods in the country.

Lot No. E. 24. 2"x2" Vertical Auto. Engine.....$20.00

Lot No. E. O. 33. 2½"x3½", C. C., Reversible Marine, H. P. 2½.....$30.00

Lot No. E. O. 7. 2½"x4", C. C., Uppenheimer, Vertical, Slide Valve, H. P. 2.$25.00

Lot No. E. O. 297. 3"x4" Oscillating Engines, H. P. 3.....$30.00

Lot No. E. O. 84. 3"x4", C. C., Slide Valve, H. P. 3.....$35.00

Lot No. E. O. 179 to 192. 3"x5", C. C., Slide Valves, H. P. 3.....$35.00

Lot No. E. 55. 3"x5" Vertical Acme Engine.

Lot No. E. 25. 3"x5" Vertical Engine, C. C., H. P. 3.

Lot No. E. O. 9. 3"x4½", C. C., Slide Valve, H. P. 3.....$35.00

Lot No. E. 45. 4"x6", N. Y. Safety Vertical Engine.

Lot No. E. 51. 5"x5" Vertical Huyett & Smith Engine.

Lot No. E. 42. 5"x5" Vertical Auto. Engine.

Lot No. E. O. 252. 5"x6", C. C., Hill & Co., Auto., H. P. 6.....$65.00

Lot No. E. 59. 5"x6" Vert. Engine.

Lot No. E. O. 250. 5"x7", C. C., New York Safety, Auto, H. P. 10.....$65.00

Lot No. E. 23. 5"x7" Vert. C. C. Engine.

Lot No. 517. 6"x7" Orr & Sembrower Co. Vertical Engine.

Lot No. E. 43. 6"x7" Vert. Side Crank 6 Powered Engine.

Lot No. E. 37. 6"x8" Davis & Lankin Vertical Engine.

Lot No. E. 46. 7"x7" Upright Engine.

Lot No. E. 28. 7"x8" New York Safety Type Vert. Engine.

Lot No. E. O. 116. 7"x9" Rice and Whittaker, Oscillating, H. P. 15.....$75.00

Lot No. E. 521. 7"x10" Nagle Vertical C. C., Throttling Governor Engine.

Lot No. E. 48. 7½"x10" Vertical C. C. Engine.

Lot No. E. 56. 8"x8" Upright Engine, Direct Connected to 1 No. 6 Morris Cent. Pump.

Lot No. E. O. 295. 12"x16" C. C., Slide Valve, H. P. 60.....$150.00

SPECIAL HORIZONTAL ENGINES

We find that we have duplicates of most of the following engines, and we feel that we are forced to quote such ridiculously low prices as given below:

Lot No. E. 38. 4"x5" Horizontal Engines.

Lot No. E. 8. 4"x6" Horizontal Auto. Engines, Direct Connected 1 Root No. 2 Rotary Power Blower.

Lot No. E. O. 05. 5"x7½", C. C., Erie, Slide Valve, H. P. 6.....$65.00

Lot No. E. O. 238. 5"x8", C. C., N. Y. Safety Slide Valve, H. P. 6.....$65.00

Lot No. E. O. 298. 6"x8", C. C., Skinner, Slide Valve, H. P. 7.....$60.00

Lot No. E. O. 210. 6"x9", C. C., Slide Valve, H. P. 8.....$75.00

Lot No. E. O. 63. 6"x10", Self-Contained, Slide Valve, H. P. 8.....$75.00

Lot No. E. O. 230. 6"x12", L. H., Slide Valve, H. P. 10.....$75.00

Lot No. E. O. 130. 7"x9", C. C., Erie City, Slide Valve, H. P. 10.....$85.00

Lot No. E. O. 269. 7"x10", C. C., Reasser & Baker, Slide Valve, H. P. 15.....$70.00

Lot No. E. O. 229. 7"x10", R. H., Erie, Slide Valve, H. P. 15.....$85.00

Lot No. E. O. 34. 7"x10", R. H., Erie, Slide Valve, H. P. 10.....$65.00

Lot No. E. O. 278. 7"x10", C. C., Richards, Slide Valve, New, H. P. 15.....$125.00

Lot No. E. O. 266. 7"x11", L. H., Erie, Slide Valve, H. P. 16.....$65.00

Lot No. E. O. 224. 8"x10", C. C., Nagle, Slide Valve, H. P. 18.....$100.00

Lot No. E. 50. 8½"x10", Horizontal, C. C., Engines.

Lot. No. E. O. 270. 8"x12", L. H., Columbia Iron Wks., Slide Valve, H. P. 20.....$90.00

Lot No. E. O. 273. 8"x14", R. H., Slide Valve, H. P. 20.....$90.00

Lot No. E. O. 272. 8"x16", L. H., Slide Valve, H. P. 20.....$90.00

Lot No. E. 52. 8"x12", Erie City, Horizontal, C. C., Engine.

Lot No. E. 10. 8"x12" Horizontal Auto. Atlas, S. C., Engine, H. P. 18.

Lot No. E. 53. 8"x14" Brownell Auto-Horizontal, S. C., Engines.

Lot No. E. 34. 9"x10" Horizontal Lively, C. C., Engines.

Lot No. E. 40. 9"x12" Ideal Horizontal, C. C., Auto. Engine with Sub. Base.

Lot No. E. 35. 9"x12", Horizontal Nagle Engines.

Lot No. E. O. 234. 10"x16", R. H., Furniss, Slide Valve, H. P. 40.....$145.00

Lot No. E. 49. 10"x16" Horizontal, S. C., Engines.

Lot No. E. O. 39. 10"x16", L. H., Slide Valve, H. P. 40.....$145.00

Lot No. E. O. 102. 10"x20", L. H., Bass, Slide Valve, H. P. 45.....$125.00

Lot No. E. O. 102. 10"x20", L. H., Greenwald, Slide Valve, H. P. 45.....$125.00

Lot No. E. O. 78. 10"x20", L. H., Slide Valve, H. P. 45.....$125.00

Lot No. E. 41. 12"x14", Horizontal Side Crank Buckeye Engines.

Lot No. E. 16. 12"x14" Horizontal, C. C., N. Y. Safety Auto. Engine, H. P. 50.

Lot No. E. 58. 12"x16" Horizontal Engine, mfd. by Chandler & Taylor.

Lot No. E. O. 232. 14½"x22", L. H., Frost, Slide Valve, H. P. 100.....$200.00

MISCELLANEOUS DEPARTMENT—Continued

GASOLINE ENGINES

Lot No. E. 501. 1½ H. P. Gasoline Engine.

Lot No. E. 517. 2 H. P. Spade Gasoline Engine.

Lot No. E. O. 296. Charter Horizontal Gasoline Engine.

Lot No. E. 36. 10"x15" Webster Gas Engine.

Lot No. E. 12. 16 H. P. Columbia Style B Gas Engine.

Lot No. E. 515. 25 H. P. Otto Gasoline Engine.

TRACTION ENGINES

If you are interested in anything in this line, don't neglect to communicate with us. We will make you prices that will get the business.

Lot No. E. O. 168. 1 Huber Traction Engine.

Lot No. E. O. 73. 1 Frick Traction Engine.

Lot No. E. O. 69. 1 Gaar-Scott & Co. Portable Outfit, H. P. 8.

Lot No. E. O. 70. 1 Gaar-Scott & Co. Traction Engine, H. P. 10.

Lot No. E. O. 57. 1 Gaar-Scott & Co. Traction Engine, H. P. 10.

Lot No. E. O. 57. 1 Gaar-Scott & Co. Traction Engine, H. P. 10.

Lot No. E. O. 120. 1 Aultman Traction Engine, H. P. 12.

Lot No. E. O. 167. 1 Huber Traction Engine, H. P. 12.

Lot No. E. O. 263. 1 Aultman & Co. Traction Engine, H. P. 12.

Lot No. E. O. 166. 1 Huber Portable Outfit, H. P. 12.

Lot No. E. O. 119. 1 Russell Traction Engine, H. P. 12.

Lot No. E. O. 75. 1 Nichols & Shepard Traction Engine, H. P. 12.

Lot No. E. O. 61. 1 Nichols & Shepard Traction Engine, H. P. 12.

Lot No. E. O. 74. 1 New Birdsdall Traction Engine, H. P. 15.

Lot No. E. O. 241. 1 Colean Traction Engine, H. P. 25.

PUMPS

Our stock of pumps is so large and varied and comprising so many of the best pumps in the market that you cannot help but find the exact one that you need. We must, however, reduce our stock of pumps and will quote you a price that will interest you.

Lot No. P. 521. One Worthington Duplex Steam Pump, 3"x1¾"x3", 1" suction, 1" discharge, brass fitted.

Lot No. P. N. 503. 25 Dean Duplex Steam Pumps, new; 3"x2"x3", 1½" suction, 1" discharge.

Lot No. P. 507. One Dean Duplex Steam Pump, 3"x2"x3", 1½" suction, 1" discharge.

Lot No. P. O. 210. One Gardner Duplex Steam Pump, 2½"x1½"x2", with receiver, 1" suction, ¾" discharge.

Lot No. P. 50. One 2½"x1¾"x4½" Canton Duplex Pump.

Lot No. P. O. 144. One Dean Duplex Steam Pump, 3"x2"x3", 1½" suction, 1" discharge.

Lot No. P. O. 173. One Smith Vail Duplex Steam Pump, 3"x2"x3", 1¼" suction, 1" discharge.

Lot No. P. O. 72. 3"x2"x3" Dean Duplex, suction 1", discharge ¾".

Lot No. P. O. 67. One 3"x2"x3" Worthington Duplex Steam Pump.

Lot No. P. 22. One Worthington Duplex Steam Pump, 3"x2"x3", 1¼" suction, 1" discharge.

Lot No. P. O. 118. One Snow Duplex Steam Pump, 3"x2"x3", 1¼" suction, 1" discharge.

Lot No. P. 34. One 3"x2"x3" Canton Duplex Steam Pump.

Lot No. P. 23. One Fairbanks Morse Duplex Steam Pump, 3"x2"x3", 1½" suction, 1" discharge.

Lot No. P. O. 35. 3"x2"x3" No. 3 Ohio Duplex, suction 1¼", discharge 1".

Lot No. P. O. 209. One Worthington Duplex Steam Pump, 3"x2"x4", with receiver, 1½" suction, 1" discharge.

Lot No. P. O. 161. One Fairbanks Morse Duplex Steam Pump, 3"x2"x4", 1¼" suction, 1" discharge.

Lot No. P. 44. One 3½"x2"x3" Laidlow & Gordon Duplex Steam Pump.

Lot No. P. O. 27. One Worthington Duplex Steam Pump, 4½"x2¾"x4", 2½" suction, 1½" discharge.

Lot No. P. 38. One 3"x2"x4" Fairbanks-Morse Duplex Steam Pump, from C. C. Ry. Co.

Lot No. P. 41. One 3"x5"x7" Wells Single Acting Steam Pump.

Lot No. P. O. 116. One Smith Vail Duplex Steam Pump, 4½"x2¾"x4", 2½" suction, 2" discharge.

Lot No. P. O. 139. 4½"x2¾"x4" Worthington Duplex Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. O. 77. 4½"x2¾"x4" Gardner Duplex Pumps, suction 1½", 1¼" discharge.

Lot No. P. O. 41. 4"x4"x6" American Single Acting Vacuum Pumps, 2" suction, 2" discharge.

Lot No. P. O. 203. 4½"x2¾"x4" Smith Vail Duplex Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. O. 206. 4½"x2¾"x4" Worthington Duplex Steam Pumps, 1½" suction, 1¼" discharge. Outside packed plunger pattern.

Lot No. P. O. 209. No. 3 Blake Duplex Steam Pumps, 2½" suction, 1½" discharge.

Lot No. P. O. 205. 4½"x2¾"x4" Dean Duplex Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. 505. 4½"x2¾"x4" Smith Vail Duplex Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. 518. 4½"x2¾"x4" Dean Duplex Steam Pumps, 2½" suction, 1½" discharge.

Lot No. P. O. 28. 4½"x2¾"x4" Worthington Duplex Pumps, suction 1½", discharge 1¼".

Lot No. P. O. 48. 4½"x2¾"x4" Dean Duplex Pumps, suction 2", discharge 1½".

Lot No. P. 32. 4½"x2¾"x4" Fairbanks-Morse Duplex Steam Pumps, suction 1½", discharge 1¼".

Lot No. P. O. 146. 4½"x2¾"x4" Worthington Duplex Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. N. 502. 4½"x2¾"x4" Dean Duplex Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. 27. 4½"x3¾"x4" Worthington Duplex Steam Pumps.

Lot No. P. 49. 4½"x2¾"x5" Duplex Steam Pumps.

Lot No. 517. 5"x3"x4" Union Single Acting Steam Pumps, 1½" suction, 1" discharge.

Lot No. P. O. 42. 5"x3"x6" American Single Acting Pumps, suction 2", discharge 1½".

Lot No. P. O. 22. 5"x3½"x6" Knowles Duplex Pumps, suction 2", discharge 1½".

Lot No. P. O. 171. 5¼"x1¼"x5" Blake Duplex Steam Pumps, 2½" suction, 1½" discharge.

Lot No. P. O. 121. 5¼"x3½"x5" Tappen Duplex Steam Pumps, 3" suction, 2" discharge.

Lot No. P. O. 106. 5¼"x3½"x5" Dean Duplex, suction 2½", discharge 2".

Lot No. P. O. 138. 5¼"x3½"x5" Worthington Duplex Steam Pumps, 2½" suction, 1½" discharge.

Lot No. P. O. 113. 5¼"x3½"x5" Worthington Duplex Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. 29. 5¼"x3½"x5" Dean Duplex Steam Pumps, 2½" suction, 1½" discharge.

Lot No. P. O. 202. 5¼"x3½"x5" Worthington Duplex Steam Pumps, 2½" suction, 1½" discharge.

Lot No. P. 504. 5¼"x3½"x5" Dean Duplex Steam Pumps, 2" suction, 1½" discharge. Outside packed plunger pattern.

Lot No. P. 35. One 5¼"x3½"x5" Worthington Duplex Steam Pump.

Lot No. P. O. 551. One No. 4 Cook & Chick Single Acting Steam Pump, 5¼"x4"x8", 2" suction, 1½" discharge.

Lot No. P. O. 214. One Laidlaw Dunn Duplex Steam Pump, 5¼"x3½"x6", 2½" suction, 1½" discharge.

Lot No. P. 550. One Dean Duplex Steam Pump, 6"x2"x6", 1½" suction, 2" discharge.

Lot No. P. O. 119. One Worthington Duplex Steam Pump, 6"x2"x6", 1½" suction, 1" discharge.

Lot No. P. 522. One Worthington Duplex Steam Pump, 6"x3½"x6", 2" suction, 1½" discharge. Outside packed plunger pattern.

Lot No. P. O. 177. One Marsh 6"x3½"x8" Steam Pump, brass fitted, suction 2½", discharge 2".

Lot No. P. O. 178. One Worthington Duplex Steam Pump, 6"x4"x6", 2½" suction, 2" discharge.

Lot No. P. O. 208. One Laidlaw Dunn Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. O. 203½. One Worthington Duplex Steam Pump, 6"x4"x6", 2½" suction, 1½" discharge.

Lot No. P. O. 140. One Fairbanks-Morse Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. O. 163. One Haynes & Prentiss Duplex Steam Pump, 6"x4"x6", 2" suction, 1½" discharge.

Lot No. P. O. 165. One Dean Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. N. 501. 25 Dean Duplex Steam Pumps, 3" suction, 2" discharge.

Lot No. P. 43. One 6"x4"x6" Dean Duplex Steam Pump.

Lot No. P. O. 131. One Worthington Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. O. 160. One Dean Duplex Steam Pump, 6"x4"x6", 4" suction, 3" discharge.

Lot No. P. O. 45. 6"x4"x6" Worthington Duplex, suction 3", discharge 2".

Lot No. P. 26. One Epping Carpenter Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. 10. Laidlaw Drum Gordon Duplex, Steam 5¾", water 3½", stroke 6", suction 2½", discharge 1½".

Lot No. P. 511. One Worthington Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. 6. Barr Duplex Steam Pump, steam 6", water 4", stroke 6", suction 2½", discharge 2".

Lot No. P. O. 186. One Snow Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge, outside packed plunger pattern.

P. O. 179. One Dean Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. O. 103. 6"x4"x6" Deane Duplex, suction 2½", discharge 2".

Lot No. P. 40. One 6"x4"x6" Worthington Duplex Steam Pump.

Lot No. P. O. 172. One Snow Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. 506. One Dean Duplex Steam Pump, 6"x4"x6", 3" suction, 2" discharge.

Lot No. P. O. 66. 6"x4"x6" Worthington Duplex, suction 3", discharge 2".

Lot No. P. O. 80. 6"x4"x6" Dean Duplex Pump, suction 2½", discharge 2".

Lot No. P. O. 39. 6"x4"x6" Furness Bros. Duplex, suction 2½", discharge 2".

Lot No. P. 37. 6"x4"x6" Duplex Steam Pumps.

Lot No. P. 31. 6"x4"x6" Worthington Duplex Steam Pumps, 2½" suction, 1½" discharge.

Lot No. P. O. 104. 6"x4"x10" Duplex Pumps, suction 2½", discharge 2".

Lot No. P. O. 195. 6"x10"x6" F. C. Wells Single Acting Pumps.

Lot No. P. 33. 7"x3"x6" Dean Duplex Steam Pumps.

Lot No. P. 33. 7"x3"x6" Worthington Duplex Pumps (Steam), 4" suction, 3" discharge.

Lot No. P. O. 196. 7½"x7½"x10" Smith Vaile Single Acting Steam Pumps, 2" suction, 2" discharge.

Lot No. P. O. 180. 7"x8"x8" Hall Duplex Steam Pumps, 3" suction, 2" discharge.

Lot No. P. O. 98. 8"x2½"x10" Smith Vaile Hydraulic, suction 2", discharge 1".

Lot No. P. 45. 8"x4½"x10" Hughes Duplex Steam Pumps.

Lot No. P. O. 132. 8"x12"x12" Smith-Vaile Duplex, suction 10", discharge 8".

Lot No. P. 15. Worthington Duplex Pumps, steam 8", water 12", stroke 9", suction 8", discharge 6".

Lot No. P. O. 85. 10"x6"x13" Cameron No. 1, suction 6", discharge 5".

Lot No. P. O. 157. No. 8 Canton Duplex Steam Pumps, 3" suction, 2" discharge.

Lot No. P. O. 125. 12"x7"x10" Worthington Duplex Steam Pumps, 6" suction, 5" discharge.

Lot No. P. 47. 12"x7"x12" Smith-Vaile Duplex Steam Pumps.

Lot No. P. O. 193. 14"x7"x10" Dean Duplex Steam Pumps, 6" suction, 5" discharge.

Lot No. P. 17. Worthington Duplex, steam 18", water 12", stroke 9", suction 5", discharge 4".

Lot No. P. 13. Wheeler & Tappin Duplex Pumps, steam 20", water 13", stroke 12", suction 8", discharge 6".

Lot No. P. 46. 6"x12"x7"x10" Tandem Duplex Laidlow & Dunn Pumps.

MISCELLANEOUS DEPARTMENT—Continued

SINGLE ACTING STEAM PUMPS

Lot No. P. 19. Union Steam Pump Co.'s Single Acting Steam Pumps, 1½" suction, 1¼" discharge.

Lot No. P. 48. Wheeler & Tappin Single Acting Steam Pumps.

Lot No. P. O. 127. Wheeler & Tappin Single Acting Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. 28. 3½"x2"x5" Marsh Type Single Acting Steam Pumps.

Lot No. P. 3. Knowles No. 3 Single Acting Pumps, steam 3", water 2½", stroke 7", suction 2", discharge 1½".

Lot No. P. O. 184. No. 4 Blake Single Acting Steam Pumps.

Lot No. P. 503. No. 4 Dean Single Acting Steam Pumps, 2" suction, 1½" discharge.

Lot No. P. 5. No. 4 Single Acting Steam Pumps, 4" suction, discharge 2".

Lot No. P. O. 83. 4"x4"x4" Moore Single Acting Vacuum Pump.

Lot No. P. 7. Hooker No. 5 Single Acting Pumps, steam 4", water 3", stroke 7", suction 2", discharge 1½".

Lot No. P. O. 89. 5"x3¼"x3" Dean No. 3 Single Acting Pumps, suction 2", discharge 1½".

Lot No. P. 13. 5¼"x3½"x6" Tappin Single Acting Steam Pumps, 2" suction, 1½" discharge.

Lot No. 512. 6"x4"x6" Hooker Single Acting Steam Pumps, 1" suction, 1" discharge.

Lot No. P. O. 14. 5½"x3¾" size, No. 4 Furness Bros. Single Acting Pumps, suction 2", discharge 1½".

Lot No. P. O. 107. 5½"x3¾"x7" size, No. 4 Blake Single Acting Pumps, suction 2", discharge 1½".

Lot No. P. O. 108. 5½"x3½"x5" Snow Duplex Pumps, suction 2", discharge 1½".

Lot No. P. O. 36. 6"x3⅝"x8" No. 7 Marsh Single Acting Pumps, suction 2½", discharge 2".

Lot No. P. 515. 6"x8"x7" Warehouse Single Acting Steam Pumps, 3" suction, 2½" discharge.

Lot No. P. 1. Blake No. 7 Single Acting Pumps, steam 7", water cyl. 4", stroke 10", suction 3½", discharge 2½".

Lot No. P. 8. Blake No. 8 Single Acting Pumps, steam 9", water 5", stroke 12", suction 3½", discharge 2½".

Lot No. P. 4. Smedley Single Acting Pumps, steam 8", water 4", stroke 12", suction 3", discharge 2½".

Lot No. P. O. 87. 9"x9"x10" Holly Single Acting Pumps, suction 3", discharge 2½".

Lot No. P. O. 110. 10"x5½"x12" Marsh Single Acting Pumps, suction 3", discharge 2½".

Lot No. P. O. 109. 10"x5½"x12" Marsh Single Acting Pumps.

Lot No. P. 21. 10"x12"x12" Dean Single Acting Pumps, 6" suction, 5" discharge.

Lot No. P. O. 130. 12"x8"x12" Marsh Single Acting Steam Pumps, 5" suction, 4" discharge.

OTHER PUMPS

Lot No. P. O. 175. 12"x24" Dean Deep Well Pumps, steam driven.

P. O. 69. Centrifugal Johnson Pumps, 2" suction, 1½" discharge, belt driven.

Lot No. P. 36. Centrifugal Pumps, suction 2½", discharge 2".

Lot No. P. O. 191. Centrifugal Pumps, 4" suction, 3" discharge, belt driven.

Lot No. P. O. 6. Taber Pump Co. Centrifugal Pumps, suction 4", discharge 3".

Lot No. P. O. 5. Herberkamp Centrifugal Pumps, steam 3", water 2½", stroke 7", suction 2", discharge 1½".

Lot No. P. 53. No. 5 Morris Centrifugal Belt Driven Pumps.

Lot No. P. 5. 14"x12" Drive Pulley No. 6 Gould Centrifugal Pumps, 8" suction, 6" discharge.

Lot No. P. 42. Belt Driven Centrifugal Pumps, 3" suction, 2" discharge....$10.46

Lot No. P. O. 147. Dayton Centrifugal Pumps, 5" suction, 4" discharge, belt driven.

Lot No. P. O. 10. 18"x12" Drive Pulley-Belt Driven Centrifugal Pumps, 7" suction, 5" discharge.

Lot No. P. 51. No. 8 Morris Centrifugal Pumps, direct connected to 8"x8" upright engines.

Lot No. P. 12. No. 8 Morris Centrifugal Pump, direct connected to 8"x12" Vertical Engine.

Lot No. P. O. 143. Van. Wic. Centrifugal Pumps, 15" suction, 21" discharge. Belt driven.

Lot No. P. O. 151. Two Rumsey Submerged Centrifugal Pumps, 3" suction, 2" discharge. Belt driven.

Lot No. P. O. 168. Southwark Foundry & Machine Co. Centrifugal Pumps, 24" suction, 18"x18" double discharge.

Lot No. P. O. 212. No. 15 Morris Centrifugal Pumps, direct connected to 10"x9" Vertical Duplex Engine.

Lot No. M. 541. Centrifugal Pumps, direct connected to 3"x5" vertical machine mounted on same base. Suction of pump 4", discharge of pump 3".

Lot No. P. 154. Channon Diaphragm Pumps, 3" suction.

Lot No. M. 520. Wall Hand Pumps, 1¼" suction, ½" discharge.

Lot No. M. 519. Hand Pumps, 1½" suction, 1¼" discharge.

Lot No. P. 52. 4"x6" Gould Belt Driven Triplex Pumps.

Lot No. P. 503. Pulsameter Pumps, 3" suction, 2" discharge, 1" steam.

Lot No. P. 501. No. 2 Deming Rotary Pumps, Belt Driven, 1" suction, 1¼" discharge. Tight and loose pulleys, 7"x2½".

Lot No. P. O. 300. Hooker Deep Well Pumps, steam driven, size 6"x24".

Rumsey & Co.'s Vertical Hand Power Pumps, 3" suction, 2" discharge.

Lot No. P. 516. 4"x4"x4" Union Steam Pump Co.'s Vacuum Pumps.

Lot No. P. 523. 6"x8"x12" Webster Vacuum Pumps, 5" suction, 4" discharge.

Lot No. P. O. 187. Marsh Dry Vacuum Pumps, 16" steam, 20" air, 6" suction, 6" discharge, 8 B 26 at bottom.

Lot No. P. 20. 7"x5"x12" McCowan Duplex Vacuum Pumps, suction 5", discharge 5".

Lot No. P. 9. Blake Vacuum Pumps, steam 14", water 7", stroke 10", suction 3", discharge 3".

Lot No. P. 509. Double Cylinder Vertical Pumps, Hand Power, 2" suction, 1¼" discharge.

Lot No. P. 508. Gould Rotary Pumps, 1½" suction, 1½" discharge.

Lot No. P. 502. No. 2 Deming Pumps, 2" suction, 2" discharge. Belt driven. Tight loose pulleys 11"x3".

Lot No. P. O. 102. No. 1 Alright Belt Driven Pumps.

HOISTING ENGINES AND BOILERS

Absolutely the finest manufactured. Our stock of these is always changing and therefore solicit your inquiries.

Lot No. E. O. 299. 5"x6" Stroudsburg Dbl. Cyl. Dbl. Drum Hoisting Engines and Boilers.

Lot No. E. 32. Marine Iron Works, 6"x8" Double Cylinder, Single Drum Hoisting Engines.

Lot No. E. O. 62. 6"x8" Double Drum Double Geared Hoist.

Lot No. E. O. 251. 7"x8" Mitchell Vertical, Single Drum, Dbl. Cyl. Hoisting Engines.

Lot No. E. 522. 7"x10" Stroudsburg Double Drum Friction Hoist.

Lot No. E. 33. 7¼"x10" Dbl. Cyl. Single Drum, Orr & Sembrower Hoisting Engines.

Lot No. S. E. 6. 6¼"x8" O. & S. Double Cylinders, Double Drum Hoists.

Lot No. S. E. 9. 7"x10" American Double Cylinder, Double Friction Drum Hoisting Engines and Boilers.

Lot No. S. E. 5. 7"x10" Double Cylinder, Double Drum Hoisting Engines.

Lot No. S. E. 4. Belted Friction Hoists.

Lot No. S. E. 8. 6"x8" Marine Iron Works, Double Cylinder, Single Drum Hoisting Engines with Boilers.

Lot No. E. O. 81. 8"x12" Mundy Dbl. Cyl., Dbl. Drum Hoisting Engines and Boilers.

Lot No. E. O. 350. 8¼"x10" American Hoist & Derrick Co. Dbl. Cyl., Dbl. Drum Hoisting Engines, with Swinging Boom Attachment.

Lot No. E. O. 305. 8½"x12" Webster, Camp & Lane Dbl. Cyl. Hoisting Engines and Boilers, Single Drum.

Lot No. E. O. 306. 12"x15" Ledgerwood Dbl. Cyl., Dbl. Tandem Drum Link Motion Hoisting Engines.

BLOWERS, FANS AND EXHAUSTERS

We have at all times an immense stock of blowers and fans of the very best make. They are practically as good as new, and our prices below the cost of manufacture.

Lot No. M. 537. No. 00 Sturtevan Blower, 5" suction, 4" discharge.

Lot No. M. 110. No. 0 Buffalo Forge Co. Blowers.

Lot No. 533. No. 1 Cupola Blowers, 5" outlet.

Lot No. M. 107. No. 1 Garden City Blowers.

Lot No. M. 505. 18" Blowers, 6" Square Outlets, Drive Pulley 3½"x3½".

Lot No. M. O. 80. 1♯ No. 2 Buffalo Blowers.

Lot No. M. O. 171. 24" Window Ventilating Fans.

Lot No. M. 66. 24" Belt Driven Blowers, Buffalo Forge No. 4.

Lot No. M. O. 136. 27" Buffalo Forge Co. Blowers.

Lot No. M. O. 293. 30" Boston Blowers with 2 drive pulleys, 4"x3½".

Lot No. M. O. 168. 32" Window Ventilating Fans.

Lot No. M. O. 166. 34" Double Fans, outlet 14", inlet 14".

Lot No. M. O. 170. 36" Window Ventilating Fans.

Lot No. M. O. 167. No. 3 Garden City Blowers.

Lot No. M. 106. No. 4 Sturtevant Blowers.

Lot No. M. 111. No. 4 Sturtevant Blowers.

Lot No. M. O. 73. No. 4 Sturtevant Blowers.

Lot No. M. O. 193. 30" Garden City Exhausters, outlet 10", inlet 10".

Lot No. M. O. 93. 30" Sturtevant Blowers.

Lot No. M. O. 176. 40" Sturtevant Blowers.

Lot No. M. 517. Window Ventilating Fans, 40" diameter, belt driven, 6 blades, wheel 12"x6".

Lot No. M. 521. 40" Window Ventilating Fans.

Lot No. M. 524. Steel Fans, belt driven, 40" diameter, 22"x22" outlet, 20" inlet, belt pulley 10"x7".

Lot No. M. 101. 40 Garden City Exhaust Fans.

Lot No. M. O. 172. 42" Gardner Blowers, outlet 15", inlet 17".

Lot No. M. O. 216. Wm. Bayley & Sons 44" Blowers, 12" wide, belt driven, drive pulley 8"x7".

Lot No. M. O. 185. 48" Hess & Warming Blowers, outlet 15", inlet 15".

Lot No. 184. 48" Sturtevant Blowers, outlet 12", inlet 16".

Lot No. M. O. 180. 48" Garden City Exhausters, outlet 15", inlet 15".

Lot No. M. O. 96. 48" Window Ventilating Fans.

Lot No. M. O. 18. 50" Window Ventilating Fans.

Lot No. M. O. 169. 54" Double Exhausters, outlet 24", inlet 12".

Lot No. M. O. 33. 54" Double Exhaust Fans, outlet 18", inlet 18".

Lot M. 102. 55" Sturtevant Exhaust Fans.

Lot No. M. O. 181. 56" Sturtevant Blowers, outlet 18", inlet 18".

Lot No. M. O. 179. 56" Buffalo Forge Co. Exhausters, outlet 18", inlet 18".

Lot No. M. O. 178. No. 5 Sturtevant Blowers.

Lot No. M. 103. No. 5 Buffalo Forge Blowers.

Lot No. M. O. 175. No. 6 Sturtevant Blowers.

Lot No. M. O. 174. No. 6 Huyett & Smith Blowers, outlet 10", inlet 18".

Lot No. M. 549. 60" Garden City Exhaust Fans, Outlet 28"x21", inlet 30".

Lot No. M. O. 182. 60" Garden City Exhausters, outlet 24", inlet 24".

Lot No. M. O. 84. 100" Sturtevant Fans.

MISCELLANEOUS DEPARTMENT—Continued

IRON WORKING MACHINERY

Look at this list and if you do not find what you want advise us. We can most likely give you just what you are looking for and save you money.

Lot No. M. O. 27. Preble Machine Wks. Planer, endless bed, double surfacer, 28" knives.

Lot No. M. O. 501. Drills made by H. Bales & Son, Dayton, Ohio.

Lot No. M. O. 155. Foot Power Mortisers, Barnes.

Lot No. M. 97. 8"x4"x4" Monitor Turret Head Lathe, complete with cutting-off tool, cross feed turret, head and countershaft.

Lot No. M. 74. 10'x26" Carroll & Jamieson Foot Power Lathes.

Lot No. M. 61. 30"x3' Drum Invincible Sanders.

Lot No. M. 62. Spindle Buss Machy. Co. Shapers, 3'x4'5".

Lot No. M. 53. 10" Shaper, mfd. by L. S. Graves.

Lot No. C. H. 27. Tool Grindles-Grishold.

Lot No. M. 89. 10" W. F. & J. Barnes Friction Drills.

Lot No. C. H. 22. 24" Back Geared Barnes Drill Presses.

Lot No. C. H. 21. 30" Back Geared Barnes Drill Presses.

Lot No. M. 58. Barnes Drills, 31" swing.

Lot No. C. H. 20. 3½' Radial Drills, Universal Tables.

Lot No. C. H. 17. 4½' Plain Radial Drills, Universal Drill Co.

Lot No. C. H. 16. 4½' Plain Radial Drills, W. E. Gaug & Co.

Lot No. C. H. 19. 5' Beckford Universal Drills.

Lot No. C. H. 18. 23" Barnes Back Geared Drill Presses.

Lot No. M. 84. 12"x4' Lathes.

Lot No. M. 103. 15"x5' Lathes, mfd. by Wood, Light & Co.

Lot No. C. H. 10. 16"x6' Perkins Lathes.

Lot No. M. 52. 18"x8' Putnam Lathes.

Lot No. M. 39. 18"x8' Putnam Lathes.

Lot No. C. H. 9. 18"x8' Putnam Lathes.

Lot No. M. 55. 18"x10' Mayer & Carpenter Lathes.

Lot No. C. H. 8. 18"x10' Dietz, Schumacher & Boye Lathes.

Lot No. M. 77. 18"x10' Hill Clarke Co. Lathes.

Lot No. M. 76. 18"x10' Hill Clarke Co. Lathes.

Lot No. M. 75. 18"x12' Hill Clarke Co. Lathes.

Lot No. M. 51. 18"x12' Putnam Lathes.

Lot No. M. 50. Putnam Lathes, 8 ft., 6" bed, 24" swing.

Lot No. C. H. 6. 24"x12' Lodge & Shipley Lathes.

Lot No. C. H. 7. 24"x24' Fort Scott (Shafting) Lathes.

Lot No. C. H. 5. 26"x14' Blaisdell Lathes.

Lot No. S. M. 40. Suspension Drill Press.

Lot No. S. M. 38 18" Drill Press.

Lot No. S. M. 39. 30" Back Geared Drill Press.

Lot No. S. M. 36. 14"x5' Putnam Lathes.

Lot No. S. M. 37. 15"x5½' Prentiss Lathe.

Lot No. S. M. 35. 14"x6' Putnam Lathe.

Lot No. S. M. 34. 15"x9' Lathe.

Lot No. S. M. 33. 16"x6' Morris Lathe.

Lot No. S. M. 32. 16"x6' Barnes Lathe.

Lot No. S. M. 31. 18"x6' Fitchburg Lathe.

Lot No. S. M. 30. 18"x16' Reed Lathe.

Lot No. S. M. 27. 18"x12'6" Fitchburg Lathe.

Lot No. S. M. 26. 19"x10' Lawrence Lathe.

Lot No. S. M. 25. 24"x12' Putnam Lathe.

Lot No. S. M. 25. 24"x14' Fitchburg Lathe.

Lot No. S. M. 25. 34"x22' Pond Lathe.

Lot No. A. 139. 24"x6' Endless Bed Planer.

Lot No. S. M. 41. 26"x6' Fitchburg Planer.

Lot No. A. 141. Heavy Duty Greenlee Car Mortising Machine.

Lot No. A. 142. Vertical Houston Mortiser.

Lot No. C. H. 4. 26"x14' Dietz Schumacher & Boye Lathes.

Lot No. M. 109. 3' Standard Universal Milling Machines.

Lot No. M. 56. 36"x24' L. S. Graves Boring Mills.

Lot No. C. H. 2. 38"x14' Fifield Engine Lathes.

Lot No. C. H. 3. 36"x16' Walbum & Swenson Lathes.

Lot No. M. 57. 10"x18' Milling Machines.

Lot No. C. H. 25. 36" Boring Mills, Swivelheads.

Lot No. C. H. 24. 10' Betts Boring Mills, Walbum & Swenson, Swivelheads.

Lot No. C. H. 23. 10' Betts Boring Mills, Swivelheads (almost new).

Lot No. C. H. 26. Turvet Head Bullard Boring Mills.

Lot No. M. 96. 16"x4' Planers.

Lot No. M. 95. 18"x3' Planers.

Lot No. M. 54. 24"x6'6" Smith & Silk Planers.

Lot No. C. H. 14. 41"x41"x13' New Haven Planers (2 heads).

Lot No. C. H. 13. 54"x54"x22' Wiles Planers (4 heads).

Lot No. C. H. 1. 60"x22' Putnam Engine Lathes.

Lot No. M. 59. 30"x6' Dennis Machy. Co. Planers.

Lot No. C. H. 12. 58"x58"x10' Hughes & Phillips Planers (2 heads).

Lot No. C. H. 11. 60"x60"x16' Betts Planers (3 heads).

Lot No. C. H. 15. 5' Universal Radial Drills, Universal Drill Co.

WOOD WORKING MACHINERY

Our stock of Woodworking Machinery is too large to give complete, so do not hesitate to ask us for what you need. The following list will give you some idea of our variety in this line. Our prices are right.

Lot No. M. 543. Band Saw Frames without Wheels, Iron Fitting Tables.

Lot No. M. O. 201. Richmond Saw Mills, 20,000 cap. Practically new. Complete.

Lot No. M. O. 192. No. 6 Fox Universal Trimmers.

Lot No. M. O. 190. 24"x6' Planers and Matchers, Preble Mfg. Co.

Lot No. M. O. 187. Scroll Saws.

Lot No. M. O. 186. 30" Berlin Sanders, double roll, power driven.

Lot No. M. O. 161. Saw Mills, 20,000 cap., without head blocks or brakes.

Lot No. M. O. 157. Barnes Foot Power Gig Saws.

Lot No. M. O. 156. Foot Power Shapers, single spindle.

Lot No. M. O. 154. Swing and Cut-off Saws, wood frames.

Lot No. M. 64. 11"x5" Feed Rolls, opening size 12", McDonough Mfg. Co. Re-saw.

Lot No. M. 63. 36" Band Saws.

Lot No. M. 60. 24"x50" Double Tables, double cut-off saws, 4 saws diam. 11".

Lot No. C. H. 28. McDonough Mfg. Co. Band Re-Saws.

Lot No. S. M. 23. 44" McDonough Re-Saw.

Lot No. S. M. 24. 3-Roll Berlin Sander.

Lot No. A. 143. 28"x8' Preble Surface.

Lot No. 140. 36" Single Roll Berlin Sander.

WORM GEAR BELT DRIVEN FREIGHT ELEVATORS

The prices that we will quote on the following Elevators will certainly interest you.

Lot No. M. 87. Hand Power Elevators, cap. 1,000#.

Lot No. M. 48. Eaton & Prince Worm Gear Elevator, 1,000# cap.

Lot No. M. 100. Worm Gear Elevators, 1,000# capacity.

Lot No. M. 88. Reedy Worm Gear Elevators.

Lot No. M. 70. 1,500# cap. Eaton & Prince Worm Gear Elevators.

Lot No. M. 69. 2,000 cap. Mitchell Worm Gear Elevators.

Lot No. M. O. 102. Eaton & Prince Elevators. Worm gear, belt driven.

Lot No. M. O. 197. Reedy Electric Elevators, 2,000 lbs.

Lot No. M. O. 196. Worm Gear Belt Driven Elevators, 2,000 lbs.

Lot No. M. O. 195. Worm Gear Elevators, belt driven, 2,000 lbs.

Lot No. M. 105. Reedy 2,000# Elevators.

Lot No. M. 59. Crane Worm Gear Elevators, 2,000 lbs. capacity.

Lot No. M. 104. Reedy 2,000# Elevators.

Lot No. M. 49. 2,000# cap. Worm Gear Elevators.

Lot No. M. O. 145. Worm Gear Belt Driven Elevators, cap. 3,000 lbs.

Lot No. M. O. 199. Worm Gear Belt Driven Elevators, 3,000 lbs.

Lot No. M. O. 137. Mitchell Elev. Worm Gear Belt Driven, 3,000 lbs.

Lot No. M. 85. 3,000# Worm Gear Elevators, mfd. by Elithorpe Co.

Lot No. M. O. 101. J. W. Reedy Elev. Gear, belt driven, 3,000 to 4,000.

Lot No. M. O. 117. Worm Gear Belt Driven Elev., cap. 3,000 to 4,000.

Lot No. M. O. 147. Worm Gear Belt Driven Elevators, 4,000 cap.

Lot No. M. 554. Worm Gear Elevators, mfd. by Elithorpe Air Brake Co., 4,000 lbs. capacity, 36"x36"x1¾" thick.

Lot No. M. 560. Mitchell Worm Gear Elevators, 4,000 lbs. cap.

STEAM AND BELT DRIVEN AIR COMPRESSORS

We carry only the finest makes in this line and can quote you low prices on them.

Lot No. P. 39. 8"x8"x8" Westinghouse Air Pumps.

Lot No. M. O. 36. Marsh Air Compressors, 5½"x6"x6", steam driven.

Lot No. M. O. 502. 6"x6"x6" Air Compressors, steam driven.

Lot No. M. O. 203. Hughes Air Compressors, steam driven.

Lot No. M. O. 206. Wilson & Snyder Low Duty Air Comp., steam driven, 12" steam cyl., 6" air cyl., 10" stroke.

Lot No. B. 305. 8"x6" Blaisdell Class AA Belt Driven 51' Air Compressors.

Lot No. 512½. 8"x8" Platt Iron Wks. Belt Driven Air Compressors. Water jacketed, belt wheel 14" diam., 6" base, 2½" air outlet, 2½" air inlet; capacity 69 cubic ft. per minute.

Lot No. M. O. 204. Duplex Steam Driven Low Duty Air Compressor, steam 8", water 8", stroke 7".

Lot No. B. 301. 8"x14" and 9"x8" Class F Blaisdell 210' Capacity Air Compressors.

Lot No. B. 303. 9"x10" Clayton Duplex 24' Capacity Air Compressors.

Lot No. M. 91. 10"x12"x12" Duplex Air Compressors.

M. 60. 10"x10"x12" Compressors, made by the Rand Drill Co.

Lot No. B. 306. 10"x10"x13" Clayton Duplex 330' Capacity Air Compressors.

Lot No. B. 300. 12"x12" and 12"x18" Class F Blaisdell 524' Capacity Air Compressors.

Lot No. S. E. 16. 12"x14" Ingersoll-Rand Duplex Belt Driven Compressors.

Lot No. S. E. 17. 10"x10" Ingersoll-Rand Single Belt Driven Compressors.

3"x6" stroke Wheeler & Tappin Belt Driven Air Compressors, vert. machine. Crankshaft and piston to be bolted to post $15.00

Lot No. S. E. 18. 5"x5" Belt Driven Blaisdell Compressors.

Lot No. S. E. 12. 6"x10" Belt Driven Platon Air Compressors.

Lot No. S. E. 10. 7"x9" Belt Driven Rand Air Compressors.

Lot No. S. E. 19. 8"x6" Blaisdell Compressors.

Lot No. S. E. 11. 9"x9" Belt Driven Platon Air Compressors.

Lot No. S. E. 20. 10"x8" Blaisdell Compressors.

Lot No. S. E. 21. 10"x10" Blaisdell Compressors.

Lot No. S. E. 22. 10"x10" Herron & Bury Compressors.

Lot No. S. E. 13. 10"x10"x14" Rand Air Compressors.

Lot No. S. E. 14. 8"x14" Blaisdell Steam Driven Compressors.

Lot No. S. E. 15. 9"x8" Blaisdell Steam Driven Compressors.

Lot No. B. 305. 12"x14", Type 11, Rand 320' Capacity, Belt Driven Comp.

Lot No. B. 302. 16" and 10"x10" Blake Compound, Belt Driven, 244' Air Compressors.

Lot No. E. O. 303. 16"x16", C. C., Ball, Sub-Base, H. P. 175.

Lot No. E. O. 304. 16"x18", C. C. Atlas-Auto., H. P. 162.

MISCELLANEOUS MACHINERY

The following list of miscellaneous machinery will give you some idea of the variety and extent of our stock. Our prices are rock bottom. This stock is changing every day and we solicit your inquiries upon anything in the machinery line.

Lot No. M. 560. 8 Bignal & Keeler Pipe Threading Machines. Takes from 2½" to 8".

Lot No. M. 559. Grain Conveyors.

Lot No. M. 558. Burr Mill Stones—43"x 13".

Lot No. M. 553. 12"x24" Friction Drums, Drive Pulley 36"x7".

MISCELLANEOUS DEPARTMENT—Continued

Lot No. M. 552. 4' 6"x4' 6" Elevator Platforms.

Lot No. M. 546. Bullock Champion Prospecting Drills.

Lot No. M. 544. Belt Driven Mortising Machines.

Lot No. M. 542. Vertical Belt Driven Hand Feed Post Drills. Drills center of 18" diameter.

Lot No. M. 539. Two Fishers Air Compressors Cylinder and Valve.

Lot No. M. 536. No. 3 Worthington Emery Wheel Stands, Drive Pulley 4"x4".

Lot No. M. 534. No. 1 J. J. Rose Punch and Shears, 3" Knives to punch ¼" holes.

Lot No. M. 530. No. 2 Gargrave Shears.

Lot No. M. 522. Emery Grinder mounted on wooden base, spindle 24" long, two 14"x 1½" wheels.

Lot No. M. 518. Curtiss & Co. Pipe Machines 12"—2½" to 12".

Lot No. M. 516. No. 4 Curtis Pipe Threading Machines, take from 1" to 4".

Lot No. M. 515. No. 1½ Eaton Cole & Burnham Pipe Machines 14" to 2".

Lot No. M. 514. Chicago Belt Driven Steel Burr Grinding Mills, Pulley 8"x6".

Lot No. M. 513. 14" Vertical Speed Drills.

Lot No. M. 511. 6" Vertical Air Hoist 4' long.

Lot No. M. 510. 10" Vertical Air Hoist 4' long.

Lot No. M. 509. Ingersoll-Sargent Steam or Air Driven Punches on Wheels.

Lot No. M. 508. Barber Ice Machines.

Lot No. M. 507. Fisher Air Compressors, Cylinder, suitable for connecting to engines.

Lot No. M. 506. Hersey Rotary Water Meters.

Lot No. M. O. 503. Railroad Double Shanks Ratchet Drills.

Lot No. E. 501. Hill Machine Co.'s Vertical Rotary Engines.

Lot No. M. O. 103. Rand Drills, Duplex Steam, Low Duty, Water Jacketed, 8½"x 12", air 12"x12", diam. of fly wheel 60"x 5", 7½" thick.

Lot No. M. O. 202. St. Louis Ice Machines, 15 tons.

Lot No. M. O. 220. No. 7 Detroit Emery Wheel Stand Spindle 2 3-16" diam., 5' long. Fitted with 3-step cone pulleys, 7", 8" and 10" diam., all 5" Face.

Lot No. M. O. 214. 9"x14" Forney Type, Standard Gauge, Porter Locomotive.

Lot No. M. O. 191. Western Elec. Motors, connected to fans 24", ¼ H. P., 110 v., D. C.

Lot No. M. O. 173. Water Motors, Backus, 30".

Lots No. M. O. 148 to 151. Rock Drills, Ingersoll, 3¼".

Lot No. M. O. 125. Sullivan Mach. Feed Crushers.

Lot No. M. O. 125. Webster Water Motors, 16", No. 3.

Lot No. M. 99. No. ½ P. H. & I. M. Roots Co. Rotary Blowers.

Lot No. M. 98. No. ½ P. H. & F. M. Roots Co. Rotary Blowers.

Lot No. M. 94. No. 1 P. M. & F. M. Roots Co. Rotary Blowers.

Lot No. M. 92. No. 3 Stone Crushers, manufactured by Gates Iron Works.

Lot No. M. 90. No. 3 P. H. & F. M. Roots Co. Rotary Blowers.

Lot No. M. 73. 24"x48' Vert. Tub. Boilers, with a 3x5 upright combined.

Lot No. M. O. 69. No. 7 Jarecki Pipe Threading Machines, takes ¼" to 2".

Lot No. M. O. 23. Ingersoll Drills, 3⅛".

Lot No. M. 20. Fox Mach. Co. Pipe Cutters, length of frames 24".

Lot No. E. 13. Reedy D. C. Elev. Hoisting Eng., cylinder 7x8, H. P. 15.

Lot No. M. 11. Sturtevant Hot Blast Apparatus, cyl. of eng. 3x5, diam. of fans 48".

Lot No. M. 2. 26" Smith Vent. Fan.

Lot No. S. E. 7. Cyclone Drilling Outfit, all complete with 200" or rods, bits, wrenches and all trimmings mounted on wheels, including boiler and engine.

Lot No. S. M. 43. Emery Stands.

Lot No. S. M. 42. Key Slater.

Lot No. S. M. 44. Bolt Threader.

Lot No. S. M. 45. 650-lb. Steam Hammer.

Lot No. S. M. 9x15 Allis & Chalmers Jaw Rock Crusher.

BOILERS.

Look at this list of Boilers carefully. Pick out the one you want and ask us for a price on same. That is all. Our price will be so low that you will order it at once from us. Our stock is so complete that you must find just what you are looking for in this list. Remember that we are getting more Boilers in every day. If you don't find exactly what you want let us know.

HORIZONTAL TUBULAR BOILERS.

Lot No. 9. 30"x5' Horizontal Tubular Boilers, double riveted, 18 4" flues, good for 90 to 100 lbs. pressure, H. P. 8.

Lot No. 42. 30"x7' Loocmotive Type Fire Box Boilers, standard dome, 49 2" flues, good for 75 lbs. pressure, H. P. 10.

Lot No. 8. 30"x8' Horizontal Tubular Boilers, double riveted, standard dome, 20 3" flues, good for 100 lbs. pressure, H. P. 12.

Lot No. 10. 36"x6' Horizontal Tubular Boilers, 70 2" flues, H. P. 13.

Lot No. 27. 36"x8' Low Pressure Horizontal Tubular Boilers, standard dome, 30 3" flues, H. P. 15.

Lot No. 1. 36"x8' Horizontal Tubular Boilers, standard dome, double riveted, 28 3" flues, good for 90 to 100 lbs. pressure, H. P. 15.

Lot No. 22. 36"x10' Hot Water Boilers, 30 3" flues.

Lot No. 133. 42"x12' Horizontal Tubular Boilers, in good condition.

Lot No. 92. 42"x12' Horizontal Tubular Boilers, standard dome, manhole above flues and handhole below, 26 4" flues, good for 90 to 100 lbs. pressure, H. P. 30.

Lot No. 53. 42"x12' Atlas Horizontal Tubular Boilers, standard dome, manhole above flues, handhole below flues, 40 3" flues, good for 80 lbs. pressure, H. P. 35.

Lot No. 31. 42"x14' Horizontal Tubular Boilers, domeless type, 32 3½" flues, good for 95 to 100 lbs. pressure, H. P. 40.

Lot No. 28. 44"x12' Low Pressure Horizontal Tubular Boilers, standard dome, 34 3½" flues, H. P. 35.

Lot No. 101. 48"x12' Atlas Horizontal Tubular Boilers, with independent screw dome, manhole above and below flues, 42 3½" flues, good for 95 to 100 lbs. pressure, H. P. 40.

Lot No. 90. 48"x14' Horizontal Tubular Boilers, standard dome, 47 3" flues, manhole above and below flues, good for 70 lbs. pressure, H. P. 45.

Lot No. 55. 48"x14' Horizontal Tubular Boilers, standard dome, manhole above flues, handhole below flues, 39 3½" flues, good for 95 to 100 lbs. pressure, H. P. 45.

Lot No. B. 120. 48"x14' Horizontal Tubular Boilers, triple riveted, butt strapped, ⅜" shell, ½" head, H. P. 50, 120 lbs. pressure, 1 14½"x10½" manhole in each head, built in 3 courses.

Lot No. B. 501. 48"x14' Triple Riveted, Butt Strapped, 38 3½" flues, 140 lbs. steam pressure, H. P. 50.

Lot No. 33. 48"x14' Horizontal Tubular Boilers, triple riveted, butt strapped, domeless type, 26 4" flues, Eclipse manhole above flues in shell and below flues in head, good for 125 lbs. pressure, H. P. 45.

Lot No. 35. 48"x16' Horizontal Tubular Boilers, standard dome, 36 4" flues, manhole above and below flues, good for 95 to 100 lbs. pressure, H. P. 55.

Lot No. 75. 48"x16' Horizontal Tubular Boilers, low dome, manhole above and below flues, 34 3½" flues, good for 90 to 100 lbs. pressure, H. P. 55.

Lot No. 20. 48"x16' Horizontal Tubular Boilers, 28 4" flues, standard dome, double riveted, good for 95 to 100 lbs. pressure, H. P. 55.

Lot No. B. 124. 54"x14' Double Riveted Horizontal Tubular Boilers, 48 3½" tubes, 5/16" shell, 7/16" heads, 95 to 100 lbs. pressure, H. P. 60, 1 14½"x9" manhole in each head, 30"x26" dome.

Lot No. 74. 54"x15' Single Sheet Horizontal Tubular Boilers, standard dome, manhole above and below flues, 38 4" flues, good for 95 to 100 lbs. pressure, H. P. 60.

Lot No. 96. 54"x16' Horizontal Tubular Boilers, standard dome, 40 4" flues, manhole above and below flues, good for 95 to 100 lbs. pressure, H. P. 70.

Lot No. 87. 54"x16' Horizontal Tubular Boilers, standard dome, 36 4" flues, manhole above and below flues, good for from 90 to 100 lbs. pressure, H. P. 70.

Lot No. 80. 54"x16' Horizontal Tubular Boilers, standard dome, 39 4" flues, good for 85 lbs. pressure, H. P. 70.

Lot No. 104. 54"x16' Horizontal Tubular Boilers, triple riveted, butt strapped, domeless type, 34 4" flues, Eclipse manhole above and below flues, good for 115 lbs. pressure, H. P. 70.

Lot No. 85. 54"x16' Horizontal Tubular Boilers, standard dome, 46 4" flues, manhole above and below flues, good for 95 to 100 lbs. pressure, H. P. 70.

Lot No. 64. 54"x16' Horizontal Tubular Boilers, standard dome, 38 4" flues, good for 90 to 100 lbs. pressure, H. P. 70.

Lot No. B. 128. 60"x16' Horizontal Tubular Boilers, 46 4" tubes, built in 1 course, double riveted, 5/16" shell, ½" head, H. P. 80, 95 lbs. pressure.

Lot No. 60. 60"x16' Horizontal Tubular Boilers, domeless type, 58 4" flues, good for 70 lbs. pressure, H. P. 80.

Lot No. 63. 54"x16' Horizontal Tubular Boilers, standard dome, 38 4" flues, good for 90 to 100 lbs. pressure, H. P. 70.

Lot No. 93. 60"x12' Vertical Boilers, full length, 130 2" flues, good for 95 lbs. pressure, H. P. 100.

Lot No. 112. 60"x14' Horizontal Tubular Boilers, standard dome, manhole above flues, handhole below flues, 48 4" flues, good for 50 lbs. pressure, H. P. 70.

Lot No. 116. 60"x16' Single Sheet Horizontal Tubular Boilers, standard dome, 18 6" flues, manhole above and below flues, good for 90 to 100 lbs. pressure, H. P. 80.

Lot No. 108. 60"x16' Horizontal Tubular Boilers, domeless type, 48 4" flues, Eclipse manhole above and below flues, good for 95 to 100 lbs. pressure, H. P. 80.

Lot No. 18. 60"x16' Horizontal Tubular Boilers, standard dome, 52 4" flues, manhole above flues in shell, handhole below flues in head, double riveted, built in 2 courses, good for 90 to 100 lbs. pressure, H. P. 80.

Lot No. B. 134. 60"x16' Horizontal Tubular Boilers, good for 95 lbs. pressure.

Lot No. 37. 60"x16' Horizontal Tubular Boilers, single sheet, high steam drum on top, 46 4" flues, manhole above and below flues, good for 90 to 100 lbs. pressure, 80 H. P.

Lot No. 95. 60"x16' Horizontal Tubular Boilers, standard dome, 48 4" flues, manhole above and below flues, hanging type, good for 90 to 100 lbs. pressure, H. P. 80.

Lot No. 100. 60"x16' Horizontal Tubular Boilers, standard dome, 46 4" flues, manhole above and below flues, good for 90 to 100 lbs. pressure, H. P. 80.

Lot No. 51. 60"x16' Horizontal Tubular Boilers, domeless type, Eclipse manhole above and below flues, 54 4" flues, good for 100 lbs. pressure, H. P. 80.

Lot No. 88. 60"x16' Horizontal Tubular Boilers, standard dome, 44 4" flues, manhole above and below flues, good for 90 to 100 lbs. pressure, H. P. 80.

Lot No. 83. 60"x16' Horizontal Tubular Boilers, standard dome, 44 4" flues, manhole above and below flues, good for 95 to 100 lbs. pressure, H. P. 80.

Lot No. 79. 60"x16' Horizontal Tubular Boilers, standard dome, 50 4" flues, good for 90 to 100 lbs. pressure, H. P. 80.

Lot No. B. 135. 60"x16' Horizontal Tubular Boilers, good for 95 lbs. pressure.

Lot No. B. 178. 60"x16' Horizontal Tubular Boilers.

Lot No. B. 179. 60"x16' Horizontal Tubular Boilers.

Lot No. B. 136. 60"x16' Horizontal Tubular Boilers, good for 95 lbs. pressure.

Lot No. 17. 60"x16' Horizontal Tubular Boilers, standard dome, 52 4" flues, manhole above flues in shell, handhole below flues in head, double riveted, built in 2 courses, good for 90 to 100 lbs. pressure, H. P. 80.

Lot No. 39. 64"x17' Horizontal Tubular Boilers, hanging type, large steam drum on top, 54 4" flues, manhole above flues, handhole below flues, good for 90 to 100 lbs. pressure, H. P. 100.

Lot No. 76. 66"x14' Horizontal Tubular Boilers, manhole above and below flues, 54 4" flues, good for 85 lbs. pressure, H. P. 90.

Lot No. 50. 66"x16' Horizontal Tubular Boilers, standard dome, manhole above and below flues, 70 lbs. pressure, 54 4" flues, H. P. 100.

Lot No. 50. 66"x16' Horizontal Tubular Boilers, standard dome, 54 4" flues, manhole above and below flues, good for 70 lbs. pressure, H. P. 100.

Lot No. 41. 66"x16' Horizontal Tubular Boilers, domeless type, 54 4" flues, manhole above and below flues, good for 70 lbs. pressure, H. P. 100.

MISCELLANEOUS DEPARTMENT—Continued

Lot No. 110. 72"x20' Horizontal Tubular Boilers, double riveted, lap joint, domeless type, shell ⅜", heads 9/16", 16 McGregor braces in each head, good for 90 to 100 lbs. pressure, lug type Eclipse manhole on top of shell and below line of flues, 50 4½" flues, H. P. 160.

Lot No. 105. 72"x20' Horizontal Tubular Boilers, domeless type, double riveted lap joint, hanging type, shell ⅜", heads 9/16", 16 McGregor braces in each head, Eclipse manhole on top of shell and below line of flues, good for 90 to 100 lbs. pressure, 50 4½" flues, H. P. 160.

Lot No. 106. 72"x20' Horizontal Tubular Boilers, domeless type, double riveted, lap joint, hanging type, shell ⅜", heads 9/16", 16 McGregor braces in each head, Eclipse manhole on top of shell and below line of flues, good for 90 to 100 lbs. pressure, 50 4½" flues, H. P. 160.

Lot No. 107. 72"x20' Horizontal Tubular Boilers, domeless type, double riveted, lap joint, hanging type, shell ⅜", heads 9/16", 16 McGregor braces in each head, Eclipse manhole on top of shell and below line of flues, good for 90 to 100 lbs. pressure, 50 4½" flues, H. P. 160.

Lot No. 115. 72"x20' Horizontal Tubular Boilers, double riveted, lap joint, domeless type, shell ⅜", heads 9/16", 16 McGregor braces in each head, lug type, good for 90 to 100 lbs. pressure, Eclipse manhole on top of shell and below line of flues, H. P. 160.

Lot No. 78. 72"x20' Horizontal Tubular Boilers, double riveted, lap joint, shell ⅜", heads 9/16", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, good for 90 to 100 lbs. pressure, lug type, 50 4½" flues, H. P. 160.

Lot No. 94. 72"x20' Horizontal Tubular Boilers, double riveted, lap joint, domeless type, shell ⅜", heads 9/16", 16 McGregor braces in each head, Eclipse manhole on top of shell and below line of flues, hanging type, good for 90 to 100 lbs. pressure, 50 4½" flues, H. P. 160.

Lot No. 81. 72"x20' Horizontal Tubular Boilers, triple riveted, lap joint, domeless type, 7/16" shell, ⅝" heads, 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, hanging type, good for 115 lbs. pressure, H. P. 160.

Lot No. 65. 72"x20' Horizontal Tubular Boilers, double riveted, lap joint, domeless type, shell ⅜", heads 9/16", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, hanging type, good for 90 to 100 lbs. pressure, 50 4½" flues, H. P. 160.

Lot No. 57. 72"x20' Horizontal Tubular Boilers, triple riveted, lap joint, domeless type, shell 7/16", heads ⅝", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, hanging type, good for 115 lbs. pressure, H. P. 160.

Lot No. 47. 72"x20' Horizontal Tubular Boilers, triple riveted, lap joint, domeless type, shell 7/16", heads ⅝", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, hanging type, good for 115 lbs. pressure, H. P. 160.

Lot No. 34. 72"x20' Horizontal Tubular Boilers, Jackson joint, quadruple riveted, domeless type, ⅝" shell, 9/16" head, 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, for 110 lbs. pressure, hanging type, H. P. 160.

Lot No. 12. 72"x20' Horizontal Tubular Boiler, quadruple riveted with Jackson joint on the inside, domeless type, shell ⅝", heads 9/16", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, lug type, good for 110 lbs. pressure, H. P. 160.

Lot No. 114. 72"x20' Horizontal Tubular Boilers, domeless type, quadruple riveted with Jackson joint on the inside, lug type, shell ⅜", heads 9/16", 16 McGregor braces in each head, good for 110 lbs. pressure, Eclipse manhole on top of shell and below line of flues, 50 4½" flues, H. P. 160.

Lot No. 11. 72"x20' Horizontal Tubular Boilers, domeless type, quadruple riveted with Jackson joint on the inside, shell ⅜", head 9/16", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, hanging type, good for 110 lbs. pressure, H. P. 160.

Lot No. P. H. 2. 72"x20' Triple Riveted, 68 4" Flues, H. P. 160, ½" shell, ⅝" head, 100 lbs. steam pressure, equipped with Murphy stokers and grates, also complete coal and ash handling apparatus.

Lot No. P. H. 1. Triple Riveted 78"x20' Horizontal Tubular Boilers, ½" shell, ⅝" head, 125 lb. steam pressure, 86 4" flues, H. P. 200, equipped with Murphy stokers and grates, also complete coal and ash handling apparatus.

VERTICAL TUBULAR BOILERS

Lot No. B122. 18"x42" Vertical Tubular Boilers.

Lot No. B127. 18"x44" Vertical Tubular Boilers, 13 2" tubes, 28½" long, ¼" shell, 5/16" head, H. P. 2, good for 75 lbs. pressure.

Lot No. B126. 20"x36" Vertical Tubular Boilers.

Lot No. B130. 24"x44" Vertical Tubular Boilers, 25 2½" tubes, 19" long, single riveted, ¼" shell, ⅜" head, H. P. 14.

Lot No. B184. 24"x5' Vertical Tubular Boilers, 90 lbs. pressure.

Lot No. B145. 24"x6' Vertical Tubular Boilers, 90 lbs. pressure.

Lot No. B121. 27"x48" Vertical Tubular Boilers.

Lot No. 4. 30"x5' Vertical Boilers, submerged flues, good for 75 lbs. pressure, H. P. 7.

Lot No. B131. 30"x6' Vertical Tubular Boilers.

Lot No. B123. 30"x7' Vertical Tubular Boilers, 51 2" tubes, 52" long, built in 1 course, double riveted, ¼" shell, ⅜" heads, H. P. 10, 100 lbs. pressure.

Lot No. B144. 32"x42" Vertical L. P. Tubular Boilers.

Lot No. 8. 36"x7' full length Vertical Boilers, 70 2" flues, good for 80 lbs. pressure, H. P. 14.

Lot No. 62. 42"x9' Vertical Boilers, full length, 80 2" flues, good for 80 lbs. pressure, H. P. 27.

Lot No. B185. 42"x12' Horizontal Tubular Boilers.

Lot No. 91. 64"x8'6" Vertical Boilers, submerged flues, 175 2" flues, good for from 95 to 100 lbs. pressure, H. P. 75.

Lot No. 99. 84"x18' Vertical Boilers, 232 2½" flues, good for 100 lbs. pressure, H. P. 200.

FIREBOX BOILERS.

Lot No. B152. 36"x7½' Firebox Boilers.

Lot No. 25. 36"x10' Low Pressure Fire Box Boiler, standard dome, 28 3" flues, H. P. 25.

Lot No. 72. 36"x12' Low Pressure Fire Box Boilers, locomotive type, standard dome, 38 2½" flues, H. P. 26.

Lot No. B172. 36"x12'8" Firebox Boilers, 85 to 90 lbs. pressure.

Lot No. B151. 36"x12' Firebox Boilers.

Lot No. 24. 42"x10' Pressure Kewanee Firebox Boilers, 48 2½" flues, H. P. 35.

Lot No. 7. 42"x10' Kewanee Firebox Low Pressure Boilers, locomotive type, 40 3" flues, H. P. 40.

Lot No. 73. 42"x12' Fire Box Boilers, locomotive type, standard dome, 34 3" flues, H. P. 40.

Lot No. 61. 42"x12'6" Fire Box Boilers, locomotive type, standard dome, 36 3" flues, good for 50 lbs. pressure, H. P. 40.

Lot No. 102. 42"x14' Low Pressure Firebox Boilers, locomotive type, standard dome, 38 3½" flues, H. P. 40.

Lot No. 30. 42"x14' Low Pressure Horizontal Tubular Boilers, standard dome, 38 3" flues, H. P. 40.

Lot No. 29. 42"x14' Low Pressure Horizontal Tubular Boilers, standard dome, 38 3" flues, H. P. 40.

Lot No. 19. 42"x16' Firebox Boilers, locomotive type, standard dome, 47 3" flues, good for 75 lbs. pressure, H. P. 40.

Lot No. B159. 48"x8' L. P. Firebox Boilers.

Lot No. 158. 48"x8' L. P. Firebox Boilers.

Lot No. 3. 48"x11' Firebox Boilers, domeless locomotive type, double riveted, 32 3½" flues, good for 85 lbs. pressure, H. P. 45.

Lot No. 2. 48"x11' Firebox Boilers, locomotive type, domeless, double riveted, 32 3½" flues, good for 95 lbs. pressure, H. P. 45.

Lot No. 84. 48"x12' Low Pressure Firebox Boilers, locomotive type, standard dome, 34 3½" flues, H. P. 45.

Lot No. 68. 48"x12' Kewanee Low Pressure Firebox Boilers, 42 3½" flues, H. P. 45.

Lot No. 67. 48"x13' Firebox Boilers, locomotive type, standard dome, 46 3" flues, good for 85 lbs. pressure, H. P. 50.

Lot No. 109. 48"x13'6" Kewanee Low Pressure Firebox Boilers, domeless type, 48 3½" flues, H. P. 50.

Lot No. 26. 48"x21' Locomotive Type Firebox Boilers, 2 14" flues, firebox is round, double riveted, good for 90 lbs. pressure, H. P. 60.

Lot No. 6. 48"x21' Firebox Boilers, locomotive type, standard dome, double riveted, 39 3½" flues, good for 95 lbs. pressure, H. P. 60.

Lot No. 54. 54"x16' Firebox Boilers, locomotive type, standard dome, 60 3½" flues, good for 90 lbs. pressure, H. P. 50.

Lot No. 15. Firebox Boilers, locomotive type, 56" diameter x 18'6" long, 8' high, 64 3½" flues, ⅜" shell, 7/16" heads, firebox is 9' long, 6' high, good for 95 lbs. pressure, H. P. 80.

Lot No. 16. Firebox boilers, locomotive type, 56" diameter x 18'6" long, 8' high, 64 3½" flues, ⅜" shell, 7/16" heads, firebox is 9' long and 6' high, good for 95 lbs. pressure, H. P. 80.

WATER TUBE BOILERS

Lot No. 46. 200 H. P. Heine Water Tube Boilers, double drum on top, 113 3½" flues, good for 125 lbs. pressure.

Lot No. 45. 125 H. P. Heine Water Tube Boilers, single drum on top, good for 90 lbs. pressure.

Lot No. B504. 500 H. P. Babcock & Wilcox Water Tube Boilers, practically as good as new, 175 lbs. steam pressure. Also complete coal and ash handling apparatus for this battery.

OTHER BOILERS

Lot No. B162. 60 H. P. Erie City Economie Firebox Boilers.

Lot No. 13. 70 H. P. Erie City Economic, good for 95 lbs. pressure.

Lot No. 14. 30"x6'x42" high Horse Shoe Boilers for low pressure, 15 3½" flues.

Lot No. B503. 125 H. P. internally fired with Morrison corrugated furnace, triple rivetted, butt strapped, 125 lbs. steam pressure.

Lot No. 66. 150 H. P. Internal Firebox Boilers, with one Morrison corrugated furnace 45" diameter, 70 3½" flues, good for 140 lbs. pressure.

Lot No. 119. 36"x14' T. M. Nagle Water Bottom Firebox Boilers, 38 2½" flues.

Lot No. 29. 42"x15'6" T. M. Nagle Water Bottom Firebox Boilers on skids, standard dome, 42 3" flues, 40 H. P.

Lot No. B164. 36"x48" Marine Boilers.

Lot No. B173. 36"x12' Firebox Boilers on wheels.

FEED WATER HEATERS

Lot No. H. 7. Berryman Heaters, diameter 18", length 56", brass tubes, 40 H. P.

Lot No. 19. Baragwanath Heaters, 20" diameter, 8' high, 4" exhaust openings, 1½" feed water opening, 65 H. P.

Lot No. 6. Baragwanath Heaters, 20" diameter, 5' high, 4" exhaust openings, 1½" feed water opening, brass tubes, 65 H. P.

Lot No. 4. Baragwanath Heaters, 18" diameter, 6' high, 4" exhaust openings, 1½" feed water connection, 75 H. P.

Lot No. 2. Berryman Heater, 20" diameter, 7' high, 5" exhaust inlet and outlet, 2" feed water connection, brass tubes, 80 H. P.

Lot No. 1. Berryman Heater, 20" diameter, 7' high, 5" exhaust inlet and outlet, 2" feed water connection, brass tubes, 80 H. P.

Lot No. H. 10. Heaters, 24" diameter, 8' long, 85 H. P.

Lot No. 12. Baragwanath Horizontal Heaters and Purifier, 24" wide, 7' long, 4' high, brass tubes, 6" exhaust openings, 2" feed water opening, 85 H. P.

Lot No. 15. Baragwanath Heater, 20" diameter, 5'6" high, 6" exhaust openings, 1½" feed water opening, H. P. 85.

Lot No. 7. Baragwanath Heaters, 24" diameter, 6' high, 5" exhaust openings, 1½" feed water opening, 22 2" brass tubes, H. P. 85.

Lot No. 20. Brownell Open Type Heaters, 36" diameter, 6' high, 6" exhaust openings, 3" feed water opening, H. P. 100.

Lot No. 9. Berryman Heaters, 20" diameter, 8' high, brass tubes, 6" exhaust openings, 1½" feed water opening, H. P. 100.

MISCELLANEOUS DEPARTMENT—Continued

Lot No. 13. Baragwanath Heaters, 36" diameter, 6' high, iron tubes, 7" exhaust openings, 2½" feed water opening, H. P. 125.

Lot No. 5. Reynolds Heaters, 24" diameter, 7' high, 8" exhaust openings, 1½" feed water opening, good for 90 lbs. pressure, H. P. 125.

Lot No. H. 6. Krooschell's & Bourgeois Heaters, brass tubes, 150 H. P.

Lot No. 8. Reynolds Heaters, 30" diameter, 8' high, 8" exhaust openings, 1½" feed water opening, good for 90 lbs. pressure, H. P. 150.

Lot No. 3. Baragwanath Heaters, 30" diameter, 10' high, 8" exhaust openings, 2½" feed water opening, iron tubes, H. P. 150.

Lot No. 24. Reynolds Heaters, 40" diameter, 10' high, brass tubes, 7" exhaust openings, 2" feed water opening, H. P. 175.

Lot No. 11. Reynolds Heaters, 24" diameter, 10' high, iron tubes, 10" exhaust openings, 2½" feed water opening, good for 125 lbs. pressure, H. P. 175.

Lot No. 10. Reynolds Heaters, 24" diameter, 10' high, iron tubes, 10" exhaust openings, 2½" feed water opening, good for 125 lbs. pressure, H. P. 175.

Lot No. 14. Brownell Open Type Heaters, 36" diameter, 8' high, 10" exhaust openings, 3" feed water opening, H. P. 250.

Lot No. 23. Stilwell-Bierce Open Type Live Steam Heaters, 36" diameter, 14' high, 3½" steam inlet and outlet, 3½" feed water pipe, good for 95 lbs. pressure.

Lot No. 25. Excelsior Heaters and Purifier, open type, 45" diameter, 8' long, 16" exhaust openings, 6" feed water opening.

Lot No. 18. Stillwell-Bierce Open Type Heaters, 60" diameter, 12' high, 15" exhaust openings, 4" feed water opening, H. P. 500.

Lot No. 26. Baragwanath Heaters, 38" diameter, 12' high, iron tubes, 14" exhaust openings, 3" feed water opening, 1,000 H. P.

Lot No. 21. Berryman Heater, 54" diameter, 18' high, brass tubes, 14" exhaust openings, 3" feed water opening, 1,500 H. P.

Lot No. H. 9. Baragwanath Heaters, diameter 54", length over all 19', 2,000 H. P.

Lot No. 17. Baragwanath Heaters, 54" diameter 54", length over all 19', 2,000 H. P.

Lot No. 16. Baragwanath Heaters, 54" diameter, 20' high, brass tubes, 18" haust openings, 5" feed water openings, H. P. 2,000.

Lot No. H. 8. Baragwanath Heaters, diameter 54", 20' high, brass tubes, 18" exhaust openings, 5" feed water openings, 2,000 H. P.

Lot No. 22. High Pressure Steam Separator, 48" diameter, 20' long, triple riveted lap joint, 7/16" shell, 24" inlet, 14" outlet, good for 150 lbs. pressure.

TANKS

The following list of steel tanks will give you some idea of our stock. It will also show you how much money can be saved by purchasing from us. This stock is changing every day. Let us know what you are looking for. We can cut the price of new tanks in two.

Lot No. 2. Steel Tanks, 20" in diameter, 9' long, made of 3/16" steel, 200 lbs. pressure $18.00

Lot No. 44. Steel Tanks, 20" diameter, 8' long, made of ¼" steel. These tanks have one 9x14" manhole in one head. $18.00

Lot No. T. 9-10-11. 22"x5' Cylindrical High Pressure Tanks.

Lot No. 61. Steel Tank, 24" diameter, 4' long, with 1 head dished, made of ⅛" steel $7.00

Lot No. 35. Steel Tank, 24" in diameter, 6' long, with 1 12"x14" manhole in one head $15.00

Lot No. T. 18. 24"x6' Cylindrical High Pressure Tank $8.00

Lot No. 17. Steel Tank, 24" in diameter, 48" long, one head dished, made of 3/16" steel, 40 lbs. pressure.....$10.00

Lot No. 38. Steel Tank, 24" in diameter, 8' long, with ¼" pipe connection in center of shell and 1 10"x15" manhole in one head, 100 lbs. pressure $17.50

Lot No. 46. Steel Tank, 26" diameter, 34" long, with one head dished, made of 3/16" steel and will stand 100 lbs. pressure $12.00

Lot No. 43. Steel Tanks, 26" diameter, 8' long, with hanging lugs on each end, made of 3/16" steel, will stand 125 lbs. pressure $18.00

Lot No. T. 12. 30"x48" Cylindrical Tanks.

Lot No. 21. Open Cast Iron Cone Bottom Rendering Tank, steel shell 58" long, 30" in diameter, with a 10"x15" manhole in top, cast iron head and 1 11" round opening in bottom of cone, with cast iron screw and clasp cover, standing on 3 cast iron legs, 100 lbs. pressure.....$30.00

Lot No. 67. Steel Tank, 30" diameter, 5' long, made of 3/16" steel. This tank has 1 9½"x14" manhole on side.

Lot No. 18. Steel Tank, 30" in diameter, 6' long, made of 3/16" steel.

Lot No. T. 30. 30"x6' Cylindrical Tanks.

Lot No. T. 13. 30"x6' Cylindrical Tanks.

Lot No. T. 21. 30"x7' Tanks.

Lot No. T. 8. 30"x9' Cylindrical High Pressure Tanks.

Lot No. T. 31. 30"x10' Cylindrical Tanks.

Lot No. 73. Steel Tanks, 30" diameter, 29' long, made of ¼" steel. These tanks have 1 10"x15" manhole in one head.

Lot No. 65. Steel Tanks, 32" diameter, 30" deep, dished head, made of ¼" steel and will stand 100 lbs. pressure. These tanks have 2 6" flanged opening in top of head.

Lot No. 31. Steel Tanks, 36" in diameter, 48" long, with one head dished. These tanks have 1 1" bolt running through center, made of 3/16" $15.00

Lot No. 39. Steel Tanks, 36" in diameter, 5' long, made of 5/16" steel. These tanks have 1 4"x6" hand hole plate in one head and the other head is dished with 1 8" pipe connection in same, 100 lbs. pressure. $22.50

Lot No. T. 16. 36"x6' Cylindrical Low Pressure Storage Tanks.

Lot No. T. 6. Steel Tanks, 36" diameter, 8' long, dished heads, with manhole in one head $40.00

Lot No. T. 25. 36"x8' Tanks.

Lot No. T. 23. 36"x8' Tanks.

Lot No. T. 24. 36"x8' Tanks.

Lot No. T. 6. 36"x8' Cylindrical Tanks.

Lot No. 101. Steel Tanks, 10' long, 36" in diameter, made of ¼" steel, 100 lbs. pressure $45.00

Lot No. 64. Steel Tanks, 36" diameter, 15' long, made of ¼" steel, with 1 12"x15" manhole $65.00

Lot No. 47. Steel Tanks, 42" diameter, 32" long, made of 3/16" steel with one 14"x 8" manhole in dished head.

Lot No. 45. Steel Tanks, 42" diameter, 6' long, with 10"x15" manhole in shell near one head and 2 6" outlets in same head. These tanks are made of ¼" steel and will stand 25 lbs. pressure.....$24.00

Lot No. 70. Steel Tanks, 42" diameter, 12' long, 1 9"x14" manhole in one head, made of 3/16" steel.....$40.00

Lot No. T. 20. 44"x6" Low Pressure Tanks.

Lot No. 60. Steel Tanks, 48" diameter, 48" long, with 1 12"x16" manhole on top. These tanks have steel domes, and are made of ¼" steel.

Lot No. T. 29. 48"x6' Cylindrical Tanks.

Lot No. T. 17. 48"x9'2" Cylindrical Low Pressure Storage Tanks.

Lot No. 71. Steel Tanks, 48" diameter, 12' long, made of ¼" steel. These tanks have 1 16" pipe connection in one head and 1 11"x14" manhole in shell.....$60.00

Lot No. T. 26. 48"x12' Tanks, high pressure.

Lot No. 42. Steel tanks, 48" in diameter, 14" long, with horizontal seams double riveted. These tanks have ¼" pipe connection in shell, near head and 1 6" pipe connection in head. They are fitted with 1 11"x15" manhole in same, made of quarter inch steel, 100 lbs. pressure, dished heads. $100.00

Lot No. 33. Steel Tanks, 48" in diameter, 16' long, made in 2 portions, double riveted, with 1 3" 1 2" outlet in shell near head, 100 lbs. pressure.....$11.00

Lot No. 25. Steel Tanks, 48" in diameter, 19' long, shell made of 2 sheets, lap joint, triple riveted, made of 7/16" steel, 200 lbs. pressure.

Lot No. T. 22. 50"x10" High Pressure Tanks.

Lot No. 6. Steel Car Tanks, 52" in diameter, 24' long, with a dome 24" diameter, 15" high. These domes are fitted with 11"x 15" manhole, 60 lbs. pressure.....$125.00

Lot No. 22. Steel Tanks, 56" in diameter, 16' long, with dished heads. Shell made of 2 sheets, with butt strap joints, quadruple riveted cast iron door 22"x19", riveted on shell near bottom. Made of ⅝" steel, 100 lbs. pressure.....$165.00

Lot No. 49. Steel Tanks, 60" diameter, 7' long, with 10"x15" manhole shell in one head and 1 10" pipe connection in same head. Made of 3/16" steel.....$65.00

Lot No. 57. Steel Tanks, 60" diameter, 9' long, with a 2 3" manhole in shell near bottom head. Made of ¼" steel.

Lot No. 41. Steel Tanks, 60" in diameter, 16' long, with cone heads, 42" long. Heads fitted with a 10" flange connection and the other with a 6" flange connection. made of 5/16" steel, 100 lbs., with legs to stand on $150.00

Lot No. 37. Steel Tanks, 6' in diameter, 14'6" long, with 1 5" pipe connection in shell near end and 1 11"x15" manhole in head, with 5/16" steel.....$75.00

Lot No. 54. Steel Rendering Tanks, 6' diameter, 16' long. The shell is made of 5/16" steel and the heads of ⅜" steel. These tanks have a 17"x24" manhole in one end and will stand 25 lbs. pressure.

Lot No. 24. 72"x16' Rendering Tanks with conical heads, with 15"x18" openings in shell near bottom and 1 15"x23" manhole in top head. Shell made of 5/16" steel and head of ½" steel.....$200.00

Lot No. 72. Steel Tanks, 7' diameter, 12' long, made of ¼" steel. These tanks have 1 12"x16" manhole in one head and 1 26"x 23" cast iron in shell near head.

Lot No. 27. Vertical Round Steel Tanks, 8'4" in diameter, 7'6" high, with a dome 24" high and 24" in diameter. These tanks have 11"x16" manhole in dome, made of 5/16" steel. Good reservoir tanks....$90.00

Lot No. T. 14. 12"x60" Flat Bottom Open Top Tanks.

Lot No. 66. Round Open Top Tanks, 33" diameter, 38" deep, made of 3/16" steel with 2" band iron around top.

Lot No. 8. Round Open Top Steel Tanks, 36" diameter, 34" deep, 3/16" steel....$7.50

Lot No. 68. Round Open Type Steel Tanks, 48" diameter, 5' long top....$20.00

Lot No. 30. Open Top Tanks, 16" deep, 5'6" wide, 9' long, made of 3/16" steel, good vat $15.00

Lot No. 13. Round Bottom Open Steel Tanks, 12' long, 60" deep, with 3"x5" angle iron on side, made of 5/16" steel.....$50.00

No. T. 28. Rectangular Flat Bottom Open Top Tanks, 5' wide, 18' high, 8' long.

Lot No. 62. Steel Tanks, 7'6" deep, 39" wide, 11' long, made of 3/16" steel. These tanks have 1 3" pipe connection inside near bottom and one 6" opening at one end near top.

Lot No. 50. Open Top Tanks, 65" wide, 8' deep, 16' long, made of ¼" steel, with a 3"x3" angle iron around the top.... $90.00

Lot No. T. 27. Rectangular flat bottom open top Tanks, 5" wide, 3' high, 19' long.

Lot No. 4. Round bottom steel Tanks, 9'6" long, 54" wide, 40" deep, made of 3/16" steel. These tanks have a 2"x½" iron around top and are made in 3 sheets. $30.00

Lot No. 3. Taper Bottom Tanks, 9' long, 52" wide, 52" deep, made of 3/16" steel. These tanks have 1½" angle iron around the top. Standing on 4 legs.....$35.00

Lot No. 51. Steel Tanks, 11' long, 5' wide and 5' deep, made of 3/16" steel with 2" band iron around top.

Lot No. 56. Open Tanks, 15'6" long, 29" wide, 26" deep. The sides are made of 3/16" steel and the bottom of ¼" steel.

Lot No. 12. Round Bottom Open Top Steam Jacketed Kettle with a 2" steam inlet, 53" wide, 36" deep, 7' long, stay bolted, 6" centers, made of ¼" steel.....$65.00

Lot No. 36. Steam Jacket Tanks, 60" in diameter, 15' long, shell made in 2 sheets, butt strap joint, stay bolts, 8" centers.....$210.00

Lot No. 55. Round bottom Steam jacketed kettle, 8' long, 30" wide, 4' deep, steam space 1½", made of ¼" steel, stay bolts, 7" and 8" centers.

Lot No. 53. Steel Fly Wheel Pits, 9' long, 57" wide, 31" deep, made of 3/16" steel.

Lot No. M. 43 and M. 44. Cylindrical tar mixers and heaters, 48" diameter, 10'9" long.

Lot No. 40. Steam Jacket Tanks, 9' long, 36" wide, 20" deep, steam jacketed to 12", partition in center which can be taken out if desired $35.00

MISCELLANEOUS DEPARTMENT—Continued

GENERATORS, MOTORS AND TRANSFORMERS

We have a large stock of this material. Here are a few bargains. Note the prices.

Lot No. 1. 135 K. W. 250 volt D. C. Triumph Generators, multipolar, compound wound, speed 950 R. P. M. $300.00

Lot No. 4. 1 1-3 K. W. Western Electric Co. bipolar generators, D. C. Shunt wound, 1500 R. P. M. $60.00

Lot No. 8. 45 C. and C. D. C. Multipolar Generators, 450 R. P. M., 500 volts. $350.00

Lot No. 3. 12 K. W. Standard D. C. Multipolar Generators, compound wound, 110 volts, speed 1500 R. P. M. $225.00

Lot No. 2. 140 K. W. Standard, high tension D. C. Arc Dynamo, 80 lights, 50 volts, 10 amp. Full load 4,000 volts. Speed 800 R. P. M. $400.00

Lot No. 5. 10 H. P. cars Multipolar Motor, 110 volt, 925 R. P. M., 75 amp. $100.00

Lot No. 6. 7½ H. P. Akron Multipolar Motors, 220 volts, 900 R. P. M., 30 amp. $85.00

Lot No. 7. Type B Maloney Transformers, 32½ K. W. from 1800 to 500 volts.

Lot No. 9. 15 K. W. Westinghouse Oil Type Transformers, 440 to 220 and 110 volts.

Lot No. 10. 10 K. W. Westinghouse Oil Type Transformers, 440 to 220 and 110 volts.

Lot No. 11. 5 K. W. Westinghouse Oil Type Transformers, 440 to 110 volts.

Lot No. 144. 1/5 K. W. Watson Generators, 110 v., Type C, 4 amp., 1350 R. P. M. $20.00

Lot No. 188. 5 H. P. Bidwell Multiplier Motor, 220 v. $100.00

INCANDESCENT LAMPS

Brand New

Lot No. 84. 4,000 8 c. p., 101 volt inc. lamps, Edison base.

Lot No. 82. 10,000 8 c. p., 102 volt inc. lamps, Edison base.

Lot No. 83. 7,500 8 c. p., 103 volt inc. lamps, Edison base.

Lot No. 80. 300 8 c. p., 104 volt natural color green inc. lamps. $0.18

Lot No. 85. 10,000 8 c. p., 104 volt amber inc. lamps, each $0.09

Lot No. 102. 250 8 c. p., 110 volt tipless inc. lamps, Edison base.

Lot No. 103. 750 8 c. p., 115 volt inc. lamps, Edison base.

Lot No. 104. 1,500 8 c. p., 120 volt inc. lamps, Edison base.

Lot No. 55. 100 8 c. p., 214 volt inc. lamps, Edison base.

Lot No. 108. 1,250 8 c. p., 220 volt inc. lamps, Edison base.

Lot No. 101. 250 8 c. p., 230 volt tipless inc. lamps, Edison base.

Lot No. 113. 400 16 c. p., 45 volt inc. lamps, Westinghouse base, each $0.05

Lot No. 115. 150 16 c. p., 50 volt inc. lamps, Westinghouse base, each $0.05

Lot No. 116. 200 16 c. p., 60 volt inc. lamps, Edison base.

Lot No. 54. 24 16 c. p., 100 volt inc. lamps, T. & H. base.

Lot 110. 250 16 c. p., 104 volt. frosted inc. lamps, Edison base.

Lot 93. 250 16 c. p., 104 volt tipless inc. lamps, Edison base.

Lot No. 91. 100 16 c. p., 104 volt round bulb, tipless inc. lamps, Edison base.

Lot No. 88. 100 16 c. p., 104 volt frosted inc. lamps, Edison base.

Lot No. 94. 200 16 c. p., 108 volt tipless inc. lamps, Edison base.

Lot No. 90. 100 16 c. p., 110 volt round bulb, tipless inc. lamps, Edison base.

Lot No. 87. 3,000 16 c. p., 110 volt tipless inc. lamps, Edison base.

Lot No. 56. 7 16 c. p., 110 volt inc. lamps, Edison base.

Lot No. 95. 500 16 c. p., 115 volt tipless inc. lamps, Edison base.

Lot No. 57. 39 16 c. p., 115 volt frosted inc. lamps, Edison base.

Lot No. 89. 1,250 16 c. p., 120 volt tipless inc. lamps, Edison base.

Lot No. 97. 1,000 16 c. p., 120 volt tipless inc. lamps, Edison base.

Lot No. 86. 100 16 c. p., 120 volt inc. lamps, Edison base.

Lot No. 58. 100 16 c. p., 125 volt inc. lamps, Edison base.

Lot No. 92. 260 16 c. p., 125 volt tipless inc. lamps, Edison base.

Lot No. 112. 150 16 c. p., 130 volt inc. lamps, Edison base.

Lot No. 105. 200 16 c. p., 130 volt inc. lamps, Edison base.

Lot No. 111. 1,500 16 c. p., 200 volt inc. lamps, Edison base.

Lot No. 106. 125 16 c. p., 200 volt inc. lamps, Edison base.

Lot No. 99. 250 16 c. p., 200 volt tipless inc. lamps, Edison base.

Lot No. 109. 100 16 c. p., 210 volt inc. lamps, Edison base.

Lot No. 107. 125 16 c. p., 210 volt inc. lamps, Edison base.

Lot No. 96. 2,000 16 c. p., 210 volt tipless inc. lamps, Edison base.

Lot No. 100. 250 16 c. p., 225 volt tipless inc. lamps, Edison base.

Lot No. 120. 250 16 c. p., 230 volt inc. lamps, Edison base.

Lot No. 119. 250 16 c. p., 235 volt inc. lamps, Edison base.

Lot No. 118. 750 16 c. p., 240 volt inc. lamps, Edison base.

Lot No. 117. 250 16 c. p, 250 volt inc. lamps, Edison base.

Lot No. 98. 100 32 c. p., 110 volt inc. lamps, Edison base.

ELECTRICAL INSTRUMENTS

These instruments are absolutely the finest made. Practically as good as new. Tell us what you need and our price will bring a check by return mail.

Lot No. 81. Spring Ammeter, from 1 to 200 amperes.

Lot No. 49. Ashcroft Revolution counters, 8" dial, brass case, registers up to 99 million.

Lot No. 60. Thompson Recording Watt Meters, type M of the D. & M. class 100, registers up to 10 million watts.

Lot No. 61. Thompson Recording watt meters, type M., class 96 of the S. A.

Lot No. 62. Eight Stanley Watt Meters, direct reading, 25 cycles, 110 volts, 200 amperes.

Lot No. 63. Westinghouse Ammeters, A. C. round, from 0 to 200 amperes.

Lot No. 65. Westinghouse Volt Meters, D. C., from 0 to 600 volts.

Lot No. 66. Ammeter, D. C., from 0 to 400 volts.

Lot No. 67. Ammeters, D. C., from 0 to 200 volts.

Lot No. 68. Ammeters, manufactured by Benton & McDonald, D. C., from 0 to 150 volts.

Lot 69. Keystone ammeters, A. C., from 0 to 1,000 volts.

Lot No. 70. Keystone Ammeters, 0 to 200 volts.

Lot No. 71. Stanley Ammeters, A. C., 0 to 40 volts.

Lot No. 72. Stanley static ground detectors, 2,400 volts.

Lot No. 73. Thompson-Huston Current Indicators, from 0 to 80 amperes, D. C.

Lot No. 74. Wagner Watt Meters, K. W. A. C., 25 cycles, reading from 0 to 1,600.

Lot No. 75. Westinghouse power factory meters, 1,200 amperes, 6,000 volts, 1 phase, 3,000 alternations, A.

Lot No. 76. Slattery Induction Volt Meters, from 0 to 55 volts.

Lot No. 77. Thompson Portable Alternating Ammeters, from 0 to 10 Amperes.

SWITCHES

This is certainly a bargain list of switches. Are you interested? If so, send us your order. You will be well satisfied with your purchase.

Lot No. 18. 300 amperes, 125 volt, double pole single throw knife switches, each $2.50

Lot No. 19. 800 amperes, 125 volt, double pole single throw knife switches. $8.00

Lot No. 20. 600 amperes, 250 volt, double pole single throw knife switches. $5.00

Lot No. 21. 200 amperes, 500 volt, double pole single throw knife switches, each. $5.50

Lot No. 22. 800 amperes, 500 volt, triple pole single throw knife switches. $5.50

Lot No. 23. 600 amperes, 500 volt, triple pole single throw knife switches. $9.00

Lot No. 24. 100 amperes, 500 volt, triple pole single throw knife switches. $2.50

Lot No. 25. 300 amperes, 250 volt, triple pole single throw knife switches. $2.50

Lot No. 26. 200 to 275 amperes, 250 volt, double pole single throw knife switches $2.50

Lot No. 27. 150 amperes, 250 volt, double pole single throw knife switches. $2.00

Lot No. 28. 150 amperes, 250 volt, double pole single throw knife switches, fused $2.50

Lot No. 29. 50 amperes, 250 volt, double pole single throw knife switches. $1.25

Lot No. 30. 500 amperes, 125 volt, double pole single throw knife switches. $3.00

FUSES

Lot No. 133. 6 25 amperes, 500 volts, 5" long, 8 40 amperes, 220 volts, 4" long.

Lot No. 134. 150 50 amperes, 500 volts, 6¾" from C. to C., 50 60 to 150 amperes, ass't, 500 volts, 7½" from C. to C., 12 2 to 10 amperes, ass't 500 volts, 5 7/16" from C. to C., 5 200 amperes, 500 volts, 8" from C. to C., 100 60 to 100 amperes, ass't, 220 volts, 5" from C to C.

Lot No. 134. 8 150 amperes, 220 volts, 5½" from C. to C., 5 175 amperes, 220 volts, 7" from C to C.

Lot No. 135. 60 amperes, 220 volts, 4" long. 70 amperes, 220 volts, 4" long.

Lot No. 136. 200 amperes, 220 volts, 5" long. 200 amperes, 500 volts, square terminals to fit type "C" fuse block (Noark).

Lot No. 137. 3 amperes, 500 volts, 4⅝" long, 4 to 10 amperes, ass't. 500 volts, 4⅝" long.

Lot No. 138. 25 amperes, 500 volts, 6½" from C. to C. 200 amperes, 500 volts, 8½" from C. to C., 100 amperes, 500 volts, 7½" from C. to C. 20 amperes, 2,000 volts, 7" from C. to C.

Lot No. 139. 3 amperes, 600 volts, 3" long. 10 amperes, 500 volts, 5½" long. 20 amperes, 500 volts, 5½" long. 12 amperes, 500 volts, 5½" long. 25 amperes, 500 volts, 5½" long. 30 amperes, 2,500 volts. Tube expulsion fuses G. E. No. 51,296.

Lot No. 140. 10 amperes, 10,000 volts. 14 amperes, 10,000 volts. 60 amperes, 10,000 volts. 20 amperes, 10,000 volts, 50 amperes, 10,000 volts.

MISCELLANEOUS—ELECTRICAL GOODS

We solicit your inquiries on anything in the electrical line. Our prices will do the rest.

Lot No. 79. Helios new Arc Lamps, A. C. open type, 133 cycles. In original cases, just as they came from the factory. Price each $4.00

Lot No. 17. Gamwell Fire Alarm Boxes, each $40.00

Lot No. 12. Cooke 25 Line Terminal Post Heads $5.00

Lot No. 14. 110 Drop Metallic Circuit Telephone Switchboards, complete golden oak finish $60.00

Lot No. 16. Brewers Thermometers.

Lot No. 15. Beacon Light, operated by acetylene gas, lens 8", light 7" high.

Lot No. 31. 40 Wayne Wood Cut-Outs, each $2.00

Lot No. 32. Wurts Lightning Arrestors $1.00

Lot No. 33. White Opalescent Shades for 2¼" shade holders, each $0.05

Lot No. 34. 20" Flat Opalescent Shades for 4¼" shade holders.

Lot No. 35. 16" Deep Opalescent Shades for 4¼" shade holders, each. $0.35

Lot No. 36. Opalescent Shades for Miniature Lamps, each. $0.05

Lot No. 37. 12" Holophene Shades, each $1.00

Lot No. 38. No. 62965 Double Pole 30 ampere cutouts, Edison base, each. $0.05

Lot No. 41. 12" Jandus A. C. Fans, 25 cycles, 110 volts.

Lot No. 43. 9" Diehl D. C. Fans, 110 volts.

Lot No. 42. Reverse Current Relays for 50 volts.

Lot No. 44. Bryant-Cleveland Arc Cutouts $0.75

Lot No. 45. 4 bar 1000 ohm. Telephones.

Lot No. 46. 8 drop Hotel Annunciators.

Lot No. 48. 12 drop Hotel Annunciators.

Lot No. 47. 20 drop Hotel Annunciators.

Lot No. 50. Slate Panel, 36"x36"x1¼" thick, with one 100 ampere double pole single throw knife switches and 35 10 ampere single throw snap switches.

Lot No. 51. Slate Panel, 18"x24"x1" thick, with two 100 ampere and four 50 ampere double pole single throw fuse knife switches.

Lot No. 52. Slate Panel Board, 18"x44"x ¼" thick, with one 75 to 125 ampere and one 50 to 75 ampere and three 40 ampere all 250 volt fuse knife switches, and two 10 ampere snap switches.

Lot No. 53. Marble Panel Board, 18"x 20"x1" thick, with 175 to 112 ampere double pole single throw knife switches and 16 single pole snap swatches, 16 circuits.

Lot No. 131. 5 pieces 24"x25"x2" Marble for Switchboards, 1 piece 30"x25"x2", 1 piece 33"x25"x2", 1 piece 32"x66"x2", 4 pieces 24"x66"x2", 1 piece 42"x64"x1".

MISCELLANEOUS DEPARTMENT—Continued

Lot No. 121. 200' of No. 3-0 Stranded Conductor Triple Braid Weather Proof Copper Wire.

Lot No. 59. 110 lbs. of No. 12 Braid Copper Wire.

Lot No. 122. 2,000' No. 2-0 solid Conductor Triple Braid Weatherproof Copper Wire.

Lot No. 123. 300' of 300,000 C. M. Slow Burning Weatherproof Copper Wire.

Lot No. 124. 100' of No. 4-0 Slow Turning Weatherproof Copper Wire.

Lot No. 125. 50,000 Split Porcelain Knobs for No. 4 to No. 8 wire.

25,000 Split Porcelain Knobs for No. 2-0 to No. 6 wire.

These are B. & D. knobs 1" below groove. Most of them are new. They are bought in bulk and we ship them loose but properly packed.

Lot No. 126. 1,000 Single Wire Cleats for 500,000 C. M. wire, No. 100 braid..$0.25

50,000 Single Wire Cleats for No. 2-0 to No. 4-0 wire, No. 100 braid.....$0.10

Most of these cleats are of the B. & D. make and were bought in bulk, but are shipped properly packed.

Lot No. 127. 1,000 30 am. D. P. M. L. Edison Plug Cutouts, second hand, but in good condition. Price per dozen.....$0.60

200 50 amp. D. P. M. L. Peru Cutouts, brand new. Price per dozen.....$0.50

Lot No. 128. 1,000 1" Unglazed Porcelain Tubes, 1" I. D., 10" long under head, per thousand $10.00

1,000 ½" I. D., 8" long under head, per thousand $15.00

1,000 ¾" I. D., 12" long, under head, per thousand $12.50

Lot No. 129. 1,000 Fletcher Spreader Brackets.

1,000 permanent Pin Break Arms...$0.15

Lot No. 130. Brand new Ceiling Rosettes in original packages, each.....$0.10

Lot No. 132. 1,000 Arc Light Carbons, 7/16"x7", per thousand.....$5.00

10,000 Arc Light Carbons, Black Diamond, ⅝"x7", per thousand.....$4.00

Lot No. 141. Westinghouse Electric Auto. Circuit Breakers, 1,000 amp., 250 v.

Lot No. 142. Thompson-Houston Lightning Arresters, 1,000 v.....$2.50

Lot No. 143. Garton Lightning Arrestors, 500 v.

Lot No. 189. Watchman's Register, 16 stations, good working condition....$25.00

HANGERS

Our stock of Hangers is so large that we can but give you a list of some special bargains we are offering. This will serve to show you the variety and extent of our stock. What do you think of these prices?

Lot No. 10. 24"x2 7/16" Ball & Socket Adjustable Single Brace Hangers, made by the Dodge Mfg. Co., will weigh about 135 lbs. each $3.00

Lot No. 24. 24"x2 15/16" Double Brace Standard Hangers, will weight about 150 lbs. each $3.50

Lot No. 11. 30"x2 7/16" Ball & Socket Adjustable Single Brace Hangers, made by the Dodge Mfg. Co., will weight about 200 lbs. each $3.75

Lot No. 79. 30"x3 7/16" Double Brace Standard Hangers $5.00

Lot No. 80. 36"x2 3/16" Single Brace Standard Hangers $3.50

Lot No. 6. Single Brace Hangers, 24" long, 4 7/16" bore, will weigh about 300 lbs. each $12.50

Lot No. 3. Ball & Socket Chain Oiling Hangers, made by H. W. Caldwell Co., 30" long, 3 13/15" bore, will weigh about 400 lbs. each $12.50

Lot No. 5. Floor Stands, 20" long, 3½" bore, will weigh about 190 lbs. each...$7.00

Lot No. 4. Floor stands, 24" long, 3½" bore, will weigh about 295 lbs. each...$8.00

Lot No. 2. Floor Stands, 32" long, 4½" bore, will weigh about 450 lbs. each..$13.50

Lot No. 1. Floor Stands, 36" long, 4 7/16" bore, made by Falls Rivet Co., will weigh about 600 lbs. each.....$17.50

BAND WHEELS

We can furnish your wants for anything in this line. Let us have your inquiries. Our prices will satisfy you.

Lot No. 22. Band Wheels, 60" diam., 6" face, 4 3/16" bore, will weigh about 600 lbs. .....$0.02 lb.

Lot No. 21. Band Wheels, 56" diam., 17" face, 4 15/16" bore, will weigh about 600 lbs. .....$0.02 lb.

Lot No. 15. Band Wheels, 60" diam., 21" face, 3" bore, will weigh about 700 lbs. .....$0.02 lb.

Lot No. 18. Band Wheels, 60" diam., 11" face, 3 15/16" bore, will weigh about 1,300 lbs. .....$0.02 lb.

Lot No. 19. Band Wheels, 60" diam., 17" face, 4 7/16" bore, will weigh about 1,800 lbs. .....$0.02 lb.

Lot No. 13. Band Wheels, 96" dia., 22" face, 8" bore, will weigh about 2,500 lbs. .....$0.02 lb.

Lot No. 17. Band Wheels, 12' diam., 20" face, 7 15/16" bore, will weigh about 12,000 lbs. .....$0.01¾ lb.

Lot No. 16. Band Wheels, 12' diam., 25" face, 7 15/16" bore, will weigh about 13,000 lbs. .....$0.01¾ lb.

Lot No. 23. Balance Wheels, 54"x4½"x 4½", 4 11/16" bore, will weigh about 1,000 lbs. .....$0.02 lb.

Lot No. 14. Balance Wheels, 54"x6½"x 6½", 3 7/16" bore, will weigh about 2,000 lbs. .....$0.02 lb.

LARGE IRON PULLEYS

We have several hundred second hand large Iron Pulleys. They are as good as new for further service. Send us your inquiries. Here are some special bargains.

Lot No. 20. Double Belt Iron Pulleys, 62" diam., 21" face, 3 15/16" bore, will weigh about 1,500 lbs.....$0.02 lb.

Lot No. 83. Double Belt Iron Pulleys, 66" diam., 19" face, 4 7/16" bore...$0.02 lb.

Lot No. 85. 96"x8"x3 3/16" Iron Pulleys .....$0.02 lb.

WIRE ROPE SHEAVE WHEELS

Our sheave wheels are from some of the best manufacturers in the country and are considered the finest product of the workman's art. We must, however, reduce our stock, and therefore we are quoting the following exceptionally low prices:

Lot No. 68. 12" Wire Rope Sheave Wheels, will take from 1½" to 1¾" rope, and bores will range from 1" to 1 15/16", weight, 45 lbs., each.....$1.25

Lot No. 67. 18" Wire Rope Sheave Wheels, single groove, for 3" rope, 2¼" bore $2.50

Lot No. 66. 18" Wire Rope Sheave Wheels, single groove, for 1½" rope, 1 7/16" bore $3.00

Lot No. 65. 30" Wire Rope Sheave Wheels, single groove, for ⅝" rope, 1 15/16" bore $4.00

Lot No. 64. 30" Wire Rope Sheave Wheels, 2 grooves, for ⅝" rope, 1 15/16" bore $5.00

Lot No. 54. 30" Wire Rope Sheave Wheels, 2 grooves, for 1" rope, 2 7/16" bore $6.00

Lot No. 37. 30" Wire Rope Sheave Wheels, 2 grooves, for 1⅛" rope, 2 7/16" bore $6.00

Lot No. 38. 30" Wire Rope Sheave Wheels, 2 grooves, for 1⅛" rope, 2 7/16" bore $6.00

Lot No. 39. 30" Wire Rope Sheave Wheels, 3 grooves, for 1½" rope, 2 7/16" bore $8.00

Lot No. 35. 30" Wire Rope Sheave Wheels, 3 grooves, for 1¼" rope, 2 7/16" bore $8.00

Lot No. 44. 32" Wire Rope Sheave Wheels, 15 grooves, for 1" rope, 2 15/16" bore $40.00

Lot No. 36. 36" Wire Rope Sheave Wheels, single groove, for 1½" rope, 1 15/16" bore $9.00

Lot No. 41. 34" Wire Rope Sheave Wheels, single groove, for 1½" rope, 2 3/16" bore $9.00

Lot No. 47. 36" Wire Rope Sheave Wheels, single groove, for ⅝" rope, 2 3/16" bore $5.00

Lot No. 48. 36" Wire Rope Sheave Wheels, single groove, for 1¼" rope, 1 15/16" bore $8.50

Lot No. 40. 38" Wire Rope Sheave Wheels, single groove, for 1¼" rope, 2 7/16" bore $10.00

Lot No. 81. 36" Wire Rope Sheave Wheels, single groove, for 1¾" rope, 1 15/16" bore $10.00

Lot No. 55. 36" Wire Rope Sheave Wheels, 2 grooves, for ⅝" rope, 1 15/16" bore $7.50

Lot No. 45. 36" Wire Rope Sheave Wheels, 2 grooves, for ¾" rope, 2 7/16" bore $8.00

Lot No. 46. 36" Wire Rope Sheave Wheels, 2 grooves, for ⅞" rope, 1 15/16" bore $8.00

Lot No. 53. 36" Wire Rope Sheave Wheels, 2 grooves, for 1⅛" rope, 1 15/16" bore $10.00

Lot No. 49. 36" Wire Rope Sheave Wheels, 3 grooves, for 1¼" rope, 2 3/16" bore $12.00

Lot No. 52. 36" Wire Rope Sheave Wheels, 6 grooves, for 1" rope, 2 3/16" bore $18.00

Lot No. 56. 38" Wire Rope Sheave Wheels, 2 grooves, for 1" rope, 1 15/16" bore $10.00

Lot No. 63. 40" Wire Rope Sheave Wheels, single Groove, for 1¼" rope, 1 11/16" bore $10.00

Lot No. 57. 40" Wire Rope Sheave Wheels, 6 grooves, for 1" rope, 2½" bore $17.50

Lot No. 50. 42" Wire Rope Sheave Wheels, single groove, for 1⅛" rope, 2 15/16" bore $9.00

Lot No. 62. 42" Wire Rope Sheave Wheels, single groove, for 2" rope, 2 15/16" bore $12.00

Lot No. 51. 42" Wire Rope Sheave Wheels, 3 grooves, for 1" rope, 2 15/16" bore $13.50

Lot No. 61. 46" Wire Rope Sheave Wheels, 2 grooves, for ⅝" rope, 1 15/16" bore $10.00

Lot No. 58. 48" Wire Rope Sheave Wheels, single groove, for 1¼" rope, 1 15/16" bore $10.00

Lot No. 60. 48" Wire Rope Sheave Wheels, 4 grooves, for 1¼" rope, 3 7/16" bore $7.50

Lot No. 59. 52" Wire Rope Sheave Wheels, single groove, for 1" rope, 2 15/16" bore $17.50

TRANSMISSION SUPPLIES

We are listing below a few special bargains in transmission supplies. If you cannot find what you are looking for, let us know. We have it and our prices are right.

Lot No. 78. 2 3/16" Adjustable Post Hangers $1.50

Lot No. 84. 3 7/16" Adjustable Post Boxes $2.50

Lot No. 8. 3 7/16" Adjustable Ball and Socket Post Boxes, made by the Dodge Mfg. Co., will weigh about 120 lbs. each $3.00

Lot No. 9. 4 7/16" Adjustable Ball and Socket Post Boxes, made by the Dodge Mfg. Co., will weigh about 180 lbs. each $7.00

Lot No. 7. 3 3/16" Ribbed Compression Couplings $12.50

Lot No. 12. Set of Bevel Gears, 34" diam., 5" face, 3 7/16" bore, with one pinion 16" diam., 5" face, 2 15/16" bore, will weigh about 350 lbs. $20.00

Lot No. 42. Tension Carriages, 60" sheave, single groove, for 1¾" rope..$60.00

Lot No. 43. Tension Carriages, 36" sheave, single groove, for 1¾" rope..$30.00

Lot No. 70. 54" Tension Carriages, 1½" rope $50.00

Lot No. 69. 42" Sprocket Wheels, for 75 or 87 chain, 2 15/16" bore.....$5.00

Lot No. 71. No. 75 Sprocket Wheels, 30" diam., 2 15/16" bore.....$3.00

Lot No. 72. No. 75 Split Sprocket Wheels, 20" diam., 2 15/16" bore.....$2.50

Lot No. 73. No. 75 Sprocket Wheels, 20" diam., 2 15/16" bore.....$2.00

Lot No. 74. No. 76 Sprocket Wheels, 24" diam., 2 15/16" bore.....$2.50

Lot No. 76. No. 103 Sprocket Wheels, 25" diam., 2 7/16" bore.....$3.00

Lot No. 82. 54" diam., 8" face, Iron Pulleys, with square jaw clutch.

Lot No. 501. Friction Shaft Clutch, 1 15/16" $7.50

Lot No. 502. 187 Sprocket Wheels, 3 15/16" bore.....$7.50

Lot No. 506. Double Circular Sam Mandrel Collars on both ends, 1 15/16" shaft, 30" long, shaft between collars 1½", pulley 6"x6" in center. Price complete with boxes, good second hand condition.....$4.00

Lot No. 505. Circular Sam Mandrel, 1½" shaft, 24" long, 6"x4" tight and loose pulleys on end, extra heavy 12" bearings, second hand, good condition.....$3.00

Lot No. 505½. 84" single Wire Rope Sheave Wheels, will take up to 1½" rope, split hub..$17.50

MISCELLANEOUS DEPARTMENT—Continued

VALVES AND FITTINGS

In reference to our stock of Traps, Separators, Valves and fittings, we wish to state that same is too large to give you a complete list. We are presenting in the following list only a rambling selection of our immense stock. In fact, we are overstocked and must sell some of them to make room for more that are coming in. Our prices on these goods is the wonder of the world.

We have not even listed small sizes of these articles, inasmuch as our line is so complete, containing practically every size, make and kind. Advise us what you are looking for; we have it and our prices will get your order. Don't forget that all these goods are thoroughly overhauled before being shipped. We test them out and will guarantee all these goods to be in first class working order, and practical for further service.

STEAM TRAPS

Lot No. 15. 6" Eureka Float Traps for low pressure, ½" feed, ½" discharge..$4.00
Lot No. 14. No. 3 Branch Float Traps, ¾" feed, ½" discharge.....$5.00
Lot No. 24. Schaffer & Bundenberg Acme No. 3 Pot Traps, 1" feed, 1" discharge, with by-pass $5.00
Lot No. 20. Branch No. 2 Steam Traps, 1¼" feed, ¾" discharge.....$7.00
Lot No. 16. No. 00 McDaniels Traps, ½" feed, ½" discharge.....$7.00
Lot No. 12. 12" High Pressure Crane Pot Traps, with by-pass, ¾" feed, ¾" discharge $8.00
Lot No. 25. No. 1 National Blower Steam Traps, 1" feed, 1" discharge.....$10.00
Lot No. 11. No. 2 Kieley Steam Traps with by-pass, 1" feed, 1" discharge..$10.00
Lot No. 13. 14" Pot Traps, 1¼" feed, 1" discharge $10.00
Lot No. 10. No. 3 Wright Emergency Steam Traps, 1¼" feed, 1" discharge.$10.00
Lot No. 9. No. 4 Cookson Steam Traps with by-pass with ⅜" water glass connection, 1¼" feed, 1¼" discharge.....$10.00
Lot No. 17. 18" Pot Traps, 1½" feed, 1¼" discharge $12.00
Lot No. 19. No. 5 Nason, Class "C" Steam Traps $15.00
Lot No. 18. 14"x18" Onderdonk Float Traps, 1½" feed, 1½" discharge.....$15.00
Lot No. 21. No. 2 National Blower Steam Traps, 1¼" feed, 1¼" discharge.....$8.00
Lot No. 5. No. 4 Eclipse Steam Traps, with by-pass, 1½" feed, 1¼" discharge $22.50
Lot No. 6. Foster & Bishop No. 3 Steam Traps, 2" feed, 1½" discharge.....$25.00
Lot No. 22. No. 3 National Blower Steam Traps, 1½" feed, 1½" discharge.....$30.00
Lot No. 8. No. 6 Cookson Steam Traps with by-pass, ½" water glass connection, 2" feed, 2" discharge.....$30.00
Lot No. 23. No. 4 National Blower Steam Traps, 2" feed, 2" discharge.....$35.00

REGULATING VALVES

Lot No. 50. 1½" G. M. Davis Reducing Pressure Valves, without dash pot...$8.00
Lot No. 49. 2" G. M. Davis Reducing Pressure Valves, without dash pot...$10.00
Lot No. 341. 3" Hughson Eclipse Regulating Valves $25.00
Lot No. 45. 4" G. M. Davis Pressure Regulating Valves, without dash pot.$30.00
Lot No. 47. 6" Flange Reducing Pressure Valves, flanges 6"x12", 10" bolt circle, eight 11/16" bolt holes.....$40.00
Lot No. 2. 6" Flanged Pressure Regulating Valves, flanges 6"x11", 9¼" bolt circle, 8¾" bolt holes, Chaplin-Fulton.....$40.00

STEAM SEPARATORS

Lot No. 31. 2" Flanged Webster Steam Separators $4.00
Lot No. 30. 4½" Flange Standard Austin Steam Separators.....$17.50
Lot No. 29. 5" Eclipse Steam Separators, flanges 5"x10", 8½" bolt circle, 8 ⅞" bolt holes $18.00
Lot No. 28½. 6" Flanged Horizontal Steam Separators $20.00
Lot No. 28. 6" Webster Vertical High Pressure Steam Separators, fitted with companion flanges $20.00
Lot No. 27. 6" Bundy Steam Separators $20.00
Lot No. 4. 8" Warren Webster Oil Separators, flanges 8"x13½", 11¾" bolt circle, 8 11/16" holes $25.00
Lot No. 146. 10" Standard Flanged Steam Separators $35.00
Lot No. 26. 12" Bundy Separators, flanges 12"x19", 17¼" bolt circle, 12 15/16" bolt holes $50.00

VALVES

On valves we can supply your wants on anything from ⅛" to 24". Note the following prices on some special bargains we are offering. These prices include all charges for putting the valves in as good a condition as when they first left the factory.

Lot No. V. 25. 2½" Gate Valves...$2.50
Lot No. V. 54. 2½" Globe and Angle Valves $2.00
Lot No. V. 75. 2½" Horizontal Check Valves $1.50
Lot No. V. 76. 2½" Horizontal Swing Check Valves $2.00
Lot No. V. 101. 2½" Back Pressure Valves $2.60
Lot No. V. 26. 3" Gate Valves.....$3.00
Lot No. 84. 3" Screwed Quick Opening Gate Valves $4.50
Lot No. V. 55. 3" Globe and Angle Valves $3.00
Lot No. V. 102. 3" Back Pressure Valves $3.00
Lot No. V. 79. 3½" Horizontal Check Valves $3.00
Lot No. V. 77. 3" Horizontal Check Valves $2.50
Lot No. V. 78. 3" Horizontal Swing Check Valves $3.00
Lot No. V. 27. 3½" Gate Valves...$3.50
Lot No. V. 56. 3½" Globe and Angle Valves $3.25
Lot No. V. 80. 3½" Horizontal Swing Check Valves $4.20
Lot No. 325. 4" Hub and Gate Valves with indicator stands.....$6.00
Lot No. V. 57. 4" Globe and Angle Valves $4.00
Lot No. V. 28. 4" Gate Valves.....$4.00
Lot No. 53. 4" Hub and Gate Valves, with indicator stands, made by the Morgan Iron Works $6.00
Lot No. 76. 4" extra heavy Chapman Flanged Gate Valves, outside screw and yoke $10.00
Lot No. 75. 4" extra heavy Crane Flanged Gate Valves, outside screw and yoke $10.00
Lot No. V. 81. 4" Swing Check Valves $3.50
Lot No. V. 82. 4" Horizontal Swing Check Valves $5.00
Lot No. V. 103. 4" Back Pressure Valves $4.50
Lot No. V. 29. 4½" Gate Valves...$4.75
Lot No. V. 58. 4½" Globe and Angle Valves $5.00
Lot No. V. 104. 4½" Back Pressure Valves $5.70
Lot No. V. 30. 5" Gate Valves.....$5.00
Lot No. 73. 5" extra heavy Flanged Gate Valves, outside screw and yoke.$12.00
Lot No. V. 59. 5" Globe and Angle Valves $5.50
Lot No. V. 83. 5" Horizontal Swing Check Valves $6.50
Lot No. V. 105. 5" Back Pressure Valves $6.70
Lot No. V. 60. 6" Globe and Angle Valves $7.50
Lot No. V. 31. 6" Gate Valves.....$6.00
Lot No. V. 32. 7" Gate Valves.....$9.00
Lot No. V. 84. 6" Horizontal Swing Check Valves $8.00
Lot No. V. 106. 6" Back Pressure Valves $8.60
Lot No. 54. 7" Chapman Flanged Gate Valves, 7"x12½" flange, 10¼" bolt circle, 6 ⅞" bolt holes $8.00
Lot No. 55. 7" Quick Opening Flanged Gate Valves, 7"x13½" flanges, 11¼" bolt circle, 7 ⅞" bolt holes.....$10.00
Lot No. 72. 7" extra heavy Flanged Gate Valves, Crane make, non-rising steam, outside screw and yoke.....$20.00
Lot No. 184. 7" extra heavy Flanged Gate Valves $15.00
Lot No. 71. 7" extra heavy Flanged Gate Valves, outside screw and yoke.....$15.00
Lot No. 82. 7" Screwed Gate Valves with by-pass $8.00
Lot No. V. 61. 7" Globe and Angle Valves $12.50
Lot No. 41. 7" Screwed Cross Valves.. .....$13.00
Lot No. 321. 7" extra heavy Flanged Swing Check Valves.....$10.00
Lot No. 44. 7" Screwed Back Pressure Valves $10.00
Lot No. 7. 8" Screwed Gate Valves.... .....$10.00
Lot No. 40. 8" Flanged Gate Valves... .....$10.00
Lot No. 62. 8" Standard Flange Gate Valves $10.00
Lot No. 324. 8" Hub and Gate Valves with indicator stands $10.00
Lot No. 5. 8" Hub and Gate Valves with indicator stands, made by the Morgan Iron Works $10.00
Lot No. 74. 8" extra heavy Crane Flanged Gate Valves, outside screw and yoke $17.50
Lot No. 127. 8" extra heavy Flanged Gate Valves, outside screw and yoke, non-rising stem $17.50
Lot No. 126. 8" extra heavy Flanged Gate Valves, outside screw and yoke.$17.50
Lot No. 38. 8" Flanged extra heavy Gate Valves, flanges 8"x15", bolt circle, 12 13/16" bolt holes.....$17.50
Lot No. 87½. 8" extra heavy Flanged Gate Valves, outside screw and yoke.$20.00
Lot No. 87. 8" extra heavy Flanged Gate Valves $20.00
Lot No. 113. 8" extra heavy Chapman Flanged Gate Valves, outside screw and yoke $20.00
Lot No. 39. 8" extra heavy Flanged Gate Valves, extra heavy templet....$17.50
Lot No. 111. 8" extra heavy Flanged Gate Valves, outside screw and yoke with by-pass $20.00
Lot No. 142. 8" extra heavy Flanged Gate Valves with by-pass.....$17.50
Lot No. 108. 8" extra heavy Flanged Gate Valve, with by-pass.....$20.00
Lot No. V. 62. 8" Globe and Angle Valves $14.00
Lot No. 129. 8" Crane Screwed Globe Valves $12.00
Lot No. 66. 8" Standard Screwed Angle Valves $12.00
Lot No. 33. 8" Screwed Angle Valves.. ..... $12.00
Lot No. 91. 8" Jenkin Bros. Standard Flanged Globe Valves, with composition metal disc flanges.....$20.00
Lot No. 37. 8" extra heavy Flanged Angle Valves, Crane make, extra heavy templet $17.50
Lot No. 118. 8" Jenkin Bros. Standard Flanged Back Pressure Valves.....$22.50
Lot No. 70. 9" Screwed Gate Valves... ..... $12.50
Lot No. 166. 9" Standard Flanged Gate Valves.....$12.50
Lot No. 105. 9" Standard Flanged Gate Valves $13.00
Lot No. 107. 9" extra heavy Flanged Gate valves, with by-pass.....$25.00
Lot No. 36. 10" Screwed Gate Valves.. ..... $15.00
Lot No. 65. 10" Standard Flanged Gate Valves $16.00
Lot No. 97. 10" Standard Screwed Gate Valves $15.00
Lot No. 114. 10" Standard Flanged Gate Valves $16.00
Lot No. 100. 10" Standard Flanged Gate Valves, outside screw and yoke.....$16.00
Lot No. 09. 10" Crane extra heavy Flanged Gate Valves, with by-pass..$30.00
Lot No. 106. 10" extra heavy Flanged Gate Valves, with by-pass.....$30.00
Lot No. 112. Extra heavy 10" Flanged Gate Valves, outside screw and yoke, with by-pass $30.00
Lot No. 117. 10" Standard Flanged Angle $18.00
Lot No. 141. 10" Standard Jenkin Bros. Flanged Angle Valves $25.00
Lot No. 67. 10" Standard Screwed Horizontal Check Valves $17.50
Lot No. 99. 10" Vertical Flanged Back Pressure Valves $25.00
Lot No. 164. 12" Standard Chapman Flanged Gate Valves, outside screw and yoke $20.00
Lot No. 165. 12" Standard Flanged Gate Valves $20.00
Lot No. 98. 12" Standard Flanged Gate Valves $20.00
Lot No. 268. 12" Standard Flanged Gate Valves, outside screw and yoke.....$20.00
Lot No. 120. 12" Standard Flanged Gate Valves, outside screw and yoke.....$18.00
Lot No. 125. 12" Standard Flanged Gate Valves $18.00
Lot No. 143. 12" Chapman Standard Flanged Gate Valves, 18" flanges....$20.00
Lot No. 147. 12" Standard Flanged Gate Valves $20.00
Lot No. 86. 12" Standard Flanged Gate Valves $20.00
Lot No. 269. 12" Standard Flanged Gate Valves, spur geared.....$23.00

MISCELLANEOUS DEPARTMENT—Continued

Lot No. 121. 12" Low Pressure Flanged Gate Valves, single discharge.....**$20.00**
Lot No. 104. 12" extra heavy Flanged Gate Valves, outside screw and yoke, with by-pass **$40.00**
Lot No. 103. 12" extra heavy Flanged Gate Valves, outside screw and yoke, with by-pass (Crane make).....**$40.00**
Lot No. 95. 12" extra heavy Flanged Gate Valves, outside Screw and yoke, with by-pass **$40.00**
Lot No. 88. 12" extra heavy Crane Flanged Gate Valves, outside screw and yoke **$40.00**
Lot No. 93. 12" Hub and Valves..**$20.00**
Lot No. 94. 12" Standard Quick Opening Eddy Flanged Gate Valves, with rack and pinion **$22.50**
Lot No. 145. 12" Jenkins Bros. Flanged Globe Valves **$35.00**
Lot No. 51. 12" Jenkins Bros. Flanged Globe Valves **$37.50**
Lot No. 32. 12" Flanged Angle Valves, outside screw and yoke.....**$25.00**
Lot No. 320. 12" Standard Flanged Swing Check Valves **$22.50**
Lot No. 68. 12" Standard Flanged Horizontal Check Valves **$22.50**
Lot No. 110. 14" Standard Crane Flanged Gate Valves **$67.50**
Lot No. 80. 14" Standard Crane Flanged Gate Valve, outside screw and yoke..**$35.00**
Lot No. 332. 15" Standard Flanged Gate Valves **$40.00**
Lot No. 167. 16" Standard Flanged Gate Valves, with by-pass, bevel geared...**$50.00**
Lot No. 124. 16" Chapman Low Pressure Flanged Gate Valves **$40.00**
Lot No. 336. 16" Medium Pressure Flanged Gate Valves, non-rising stem..**$45.00**
Lot No. 126. 16" Low Pressure Flanged Gate Valves **$45.00**
Lot No. 334. 16" extra heavy Flanged Gate Valves **$100.00**
Lot No. 92. 16" extra heavy Eaton Flanged Valves, outside screw and yoke, with by-pass **$90.00**
Lot No. 101. 14" extra heavy Flanged Gate Valves, outside screw and yoke, with by-pass **$67.50**
Lot No. 331. 16" extra heavy Flanged Gate Valves, with by-pass, outside screw and yoke **$100.00**
Lot No. 81. 16" extra heavy Chapman Flanged Gate Valves, outside screw and yoke **$90.00**
Lot No. 132. 18" Standard Flanged Gate Valves **$55.00**
Lot No. 119. 18" Low Pressure Flanged Gate Valves **$55.00**
Lot No. 329. 18" Crane extra heavy Flanged Gate Valve, outside screw and yoke **$120.00**
Lot No. 102. 18" extra heavy flanged Gate Valves, outside screw and yoke, with by-pass **$125.00**
Lot No. 123. 24" Low Pressure Flanged Gate Valves **$75.00**
Lot No. 335. 24" extra heavy Flanged Gate Valves **$225.00**

BRAND NEW VALVES

Lot No. 509. 2" new C. C. Standard Flanged Gate Valves **$3.00**
Lot No. 510. 2½" new C. C. Standard Flanged Gate Valves **$3.75**
Lot No. 507. 2" new Standard Flanged Globe Valves **$2.75**
Lot No. 508. 3" new C. C. Standard Flanged Cross Valves **$8.00**
Lot No. 504. 4" C. C. Standard Flanged Globe Valves **$6.50**
Lot No. 506. 4" new C. C. Standard Flanged Gate Valves **$6.00**
Lot No. 505. 6" new C. C. Standard Flanged Angle Valves, 6"x12" flanges, 10½" bolt circle, 8 holes.....**$12.50**
Lot No. 503. 6" new Standard Flanged Globe Valves, 6"x12" flanges, 10½" bolt circle, 8 holes **$12.50**
Lot No. 502. 12" new Flanged Gate Valves, standard faced and drilled...**$35.00**

FITTINGS

The prices we are quoting below on Fittings will speak for themselves. As to fittings, you know as well as we do that they are just as good as new ones. Let us have your inquiries in this line.

Lot No. 232. 3"x2"x2" Extra Heavy Flanged Tee **$2.25**
Lot No. 207. 3"x2"x2" Extra Heavy Flanged Tee **$2.25**
Lot No. 257. 4" Standard Flanged Tee **$2.00**
Lot No. 259. 4" Standard Flanged Tee **$2.00**
Lot No. 217. 4" Flanged Tee.....**$2.00**
Lot No. 227. 4" Extra Heavy Flanged Tee **$2.75**
Lot No. 240. 4" Extra Heavy Flanged Tee **$2.75**
Lot No. 220. 4" Extra Heavy Flanged Tee **$2.75**
Lot No. 236. 4"x6" Extra Heavy Flanged Tee **$4.50**
Lot No. 312. 4"x6" Extra Heavy Flanged Tee **$4.50**
Lot No. 230. 4"x6" Extra Heavy Flanged Tee **$4.50**
Lot No. 245. 4"x2½"x2½" Extra Heavy Flanged Tee **$3.00**
Lot No. 249. 4½" Extra Heavy Flanged Elbow **$2.20**
Lot No. 260. 5"x6" Standard Flanged Tee **$3.75**
Lot No. 229. 5" Extra Heavy Flanged Tee **$3.50**
Lot No. 235. 5"x4"x4" Extra Heavy Flanged Tee **$3.75**
Lot No. 215. 5"x4" Extra Heavy Flanged Tee **$3.75**
Lot No. 214. 5"x3" Extra Heavy Flanged Tee **$3.75**
Lot No. 219. 5"x3"x5" Extra Heavy Flanged Tee **$3.75**
Lot No. 216. 5"x2"x2" Extra Heavy Flanged Tee **$3.75**
Lot No. 228. 5"x2" Extra Heavy Flanged Tee **$3.75**
Lot No. 211. 5"x2" Extra Heavy Flanged Tee **$3.75**
Lot No. 297. 5" Standard Flanged Drip Elbow, 2" drip.....**$2.00**
Lot No. 250. 5" Extra Heavy Flanged Elbow **$2.40**
Lot No. 246. 5" Extra Heavy Flanged Elbow **$2.40**
Lot No. 263. 6" Standard Flanged Tee **$3.00**
Lot No. 218. 6"x4"x4" Standard Flanged Tee **$4.50**
Lot No. 90. 6"x8" Standard Flanged Tee **$6.00**
Lot No. 242. 6" Extra Heavy Flanged Tee **$4.50**
Lot No. 303. 6x10" Extra Heavy Flanged Tee **$12.00**
Lot No. 210. 6"x4"x6" Extra Heavy Flanged Tee **$4.50**
Lot No. 213. 6"x4"x6" Extra Heavy Flanged Tee **$4.50**
Lot No. 212. 6"x4"x6" Extra Heavy Flanged Tee **$4.50**
Lot No. 198. 6" Extra Heavy Flanged Tee **$4.00**
Lot No. 204. 6"x4" Extra Heavy Flanged Tee **$4.50**
Lot No. 243. 6" Standard Flanged 45 Degree Elbows **$2.25**
Lot No. 322. 6" Extra Heavy Pedestal Elbow **$5.50**
Lot No. 61. 7" Standard Flanged Tee **$4.50**
Lot No. 310. 7"x10" Standard Flanged Tee **$10.00**
Lot No. 60. 7"x5" Standard Flanged Tee **$5.00**
Lot No. 57. 7"x4½" Flanged Tee..**$5.00**
Lot No. 279. 7"x4" Standard Flanged Tee **$5.00**
Lot No. 304. 7"x3" Standard Flanged Tee **$5.00**
Lot No. 154. 7"x2½" Flanged Tee..**$5.00**
Lot No. 306. 7" Extra Heavy Flanged Tee **$5.75**
Lot No. 202. 7"x6"x5" Extra Flanged Tee **$6.25**
Lot No. 307. 7"x5"x5" Extra Heavy Flanged Tee **$6.25**
Lot No. 206. 7"x4" Extra Heavy Flanged Tee **$6.50**
Lot No. 296. 7" Standard Flanged Elbow **$3.25**
Lot No. 270. 7" Standard Flanged Elbow **$3.25**
Lot No. 283.—7" Standard Flanged Elbow **$3.25**
Lot No. 284. 7" Extra Heavy Flanged Elbow **$2.40**
Lot No. 261. 7"x6"x5" Standard Flanged Cross **$7.20**
Lot No. 501. 8" Standard Flanged Tee **$5.00**
Lot No. 159. 8" Extra Heavy Flanged Tee **$7.00**
Lot No. 290. 8"x10" Extra Heavy Flanged Tee **$12.50**
Lot No. 308. 8"x6"x6" Extra Heavy Flanged Tee **$7.75**
Lot No. 258. 8" Flanged Elbow....**$3.75**
Lot No. 151. 8" Standard Flanged Elbow **$3.75**
Lot No. 254. 8" Standard Flanged Elbow, 8"x15" flange **$3.75**
Lot No. 252. 8" Standard Flanged 45 Degree Elbow **$3.75**
Lot No. 244. 8"x6" Standard Flanged 45 Degree Elbow **$4.00**
Lot No. 234. 8"x6" Standard Flanged 45 Degree Elbow **$4.00**
Lot No. 280. 8" Standard Flanged Pedestal Elbow **$6.25**
Lot No. 135. 8" Extra Heavy Crane Flanged Elbow **$5.00**
Lot No. 255. 8" Extra Heavy Flanged Elbow **$4.75**
Lot No. 163. 8" Extra Heavy Flanged Elbow **$5.00**
Lot No. 85. 8" Long Turn Screwed Double Elbow **$5.00**
Lot No. 262. 8"x7"x5" Standard Flanged Cross **$8.55**
Lot No. 333. 8" Standard Flanged Y **$7.50**
Lot No. 203. 9"x8"x5" Standard Flanged Tee **$8.00**
Lot No. 277. 9"x7"x7" Standard Flanged Tee **$8.00**
Lot No. 148. 9" Standard Flanged Elbow **$5.50**
Lot No. 253. 9" Standard Flanged 45 Degree Elbow **$4.50**
No. 275. 9" Standard Flanged Pedestal Elbow **$8.00**
Lot No. 309. 9" Extra Heavy Flanged Elbow **$6.00**
Lot No. 319. 10" Standard Flanged Tee **$8.50**
Lot No. 289. 10"x14" Standard Flanged Tee **$17.00**
Lot No. 197. 10"x12" Standard Flanged Tee **$13.00**
Lot No. 317. 10"x8" Extra Heavy Flanged Tee **$12.00**
Lot No. 315. 10"x7" Standard Flanged Tee **$9.00**
Lot No. 178. 10"x6" Standard Flanged Tee **$9.00**
Lot No. 316. 10"x5" Standard Flanged Cross **$13.00**
Lot No. 177. 10"x5" Standard Flanged Tee **$9.00**
Lot No. 176. 10"x4" Standard Flanged Tee **$9.00**
Lot No. 256. 10" Screw Tee.....**$3.50**
Lot No. 172. 10" Extra Heavy Flanged Tee **$10.50**
Lot No. 171. 10"x8" Extra Heavy Flanged Tee **$12.00**
Lot No. 300. 10"x6" Extra Heavy Flanged Tee **$12.00**
Lot No. 301. 10"x5" Extra Heavy Flanged Tee **$12.00**
Lot No. 278. 10" Standard Flanged Elbow **$6.00**
Lot No. 302. 10" Extra Heavy Flanged Elbow **$7.00**
Lot No. 138. 10" Extra Heavy Flanged Elbow **$7.00**
Lot No. 161. 10" Standard Flanged Pedestal Elbow **$10.00**
Lot No. 291. 10" 22½ Degree Flanged Elbow **$6.00**
Lot No. 186. 10" Extra Heavy Flanged Elbow **$7.00**
Lot No. 185. 10" Extra Heavy Flanged Elbow **$7.00**
Lot No. 190. 10" Extra Heavy Flanged Elbow **$7.00**
Lot No. 189. 10" Extra Heavy 45 Degree Flanged Elbow **$7.00**
Lot No. 196. 10"x5" Standard Flanged Cross **$13.00**
Lot No. 195. 10"x5"x4" Standard Flanged Cross **$13.00**
Lot No. 58. 12" Flanged Tee.....**$10.00**
Lot No. 288. 12"x10" Standard Flanged Tee **$13.00**
Lot No. 340. 12"x8" Standard Flanged Tee **$16.00**
Lot No. 155. 12"x7" Standard Flanged Tee **$12.50**
Lot No. 59. 12"x8" Standard Flanged Tee, 6" end, threaded.....**$12.00**
Lot No. 274. 12"x10" Extra Heavy Flanged Tee **$16.00**
Lot No. 157. 12"x10" Extra Heavy Flanged Tee **$16.50**
Lot No. 69. 12"x9"x9" Standard Screwed Tee **$6.00**
Lot No. 187. 12" Standard Flanged Elbow **$7.50**
Lot No. 271. 12" Standard Flanged Elbow **$8.00**
Lot No. 183. 12" Standard Flanged Pedestal Elbow **$12.50**
Lot No. 298. 12" Standard Flanged Pedestal Elbow **$12.50**

MISCELLANEOUS DEPARTMENT—Continued

Lot No. 150. 12" Standard Flanged Pedestal Elbow $12.50

Lot No. 295. 12" Standard Long Turn Flanged Elbow $20.00

Lot No. 314. 12" Extra Heavy Flanged Elbow $10.00

Lot No. 294. 12" Extra Heavy Flanged Elbow $10.00

Lot No. 193. 12" Extra Heavy 45 Degree Flanged Elbow $10.00

Lot No. 287. 12" Standard Flanged Y $16.00

Lot No. 338. 14" Standard Flanged Tee $15.00

Lot No. 153. 14"x10" Extra Heavy Flanged Tee $21.00

Lot No. 299. 14" Standard Flanged Elbow $10.00

Lot No. 273. 14" Standard Flanged Elbow $10.00

Lot No. 282. 14" Standard Flanged 45 Degree Elbow $10.00

Lot No. 160. 14" Extra Heavy Flanged Elbow $19.00

Lot No. 134. 14" Extra Heavy Crane Flanged Elbows $15.00

Lot No. 152. 14" Extra Heavy Flanged Elbows $13.00

Lot No. 285. 14"x8" Standard Flanged Cross $23.00

Lot No. 140. 15" Low Pressure Flanged Tee, with side tap 6", 21" flanges.... $20.00

Lot No. 272. 15" Standard Flanged Elbow $12.50

Lot No. 241. 15" Extra Heavy Flanged Elbow $20.00

Lot No. 144. 15" Low Pressure Flanged Tee $20.00

Lot No. 339. 15"x6" Extra Heavy Flanged Tee $25.00

Lot No. 281. 16" Standard Flanged Tee $22.50

Lot No. 223. 16" Flanged Tee, 23" flanges $22.50

Lot No. 139. 16" Low Pressure Flanged Tees $23.00

Lot No. 173. 16" Extra Heavy Flanged Tee $27.50

Lot No. 170. 16"x12" Extra Heavy Flanged Tee, 3" offset on the run.... $30.00

Lot No. 292. 16" Extra Heavy Flanged Elbow $18.00

Lot No. 131. 16" Extra Heavy Flanged Elbow $18.00

Lot No. 330. 16" Extra Heavy Flanged 45 Degree Elbow $18.50

Lot No. 311. 16" Extra Heavy Flanged 45 Degree Elbow $17.50

Lot No. 265. 16" Extra Heavy Long Turn Elbows $30.00

Lot No. 169. 16" Extra Heavy Flanged Cross $37.50

Lot No. 181. 16"x10" Extra Heavy Flanged Cross $40.00

Lot No. 137. 16"x10" Extra Heavy Taper Flanged Reducer $30.00

Lot No. 313. 18"x16"x18" Standard Flanged Tee $30.00

Lot No. 337. 18" Low Pressure Flanged Tee $27.50

Lot No. 326. 18"x10" Low Pressure Flanged Tee $22.50

Lot No. 224. 18" Extra Heavy Flanged Tee $33.00

Lot No. 267. 18"x16" Extra Heavy Flanged Tee $37.50

Lot No. 266. 18" Long Turn Tee, extra heavy $32.50

Lot No. 293. 18" Extra Heavy Flanged Elbow $22.50

Lot No. 264. 18" Extra Heavy Long Turn Elbow $35.00

Lot No. 326. 20" Standard Flanged Tee $35.00

Lot No. 318. 20" Low Pressure Flanged 45 Degree Elbow $22.50

Lot No. 180. 20" Low Pressure Flanged 45 Degree Elbow $22.50

Lot No. 175. 24" Flanged 45 Degree Elbow $40.00

Lot No. 327. 24" Low Pressure Flanged Pedestal Elbow $50.00

MISCELLANEOUS VALVES AND FITTINGS

Lot No. 305. Air Relief Valves.... $12.00

Lot No. 46. 4" Crane Screwed Water Relief Valves $12.00

Lot No. 77. 4" Flanged Screwed Water Relief Valves $12.00

Lot No. 79. Three Blakesly Steam Jet Pumps, 1" steam, 3" suction, 2½" discharge $3.00

Lot No. 43. One Jet Pump, 3" suction, 3" discharge, 2" steam..... $3.00

Lot No. 42. 24" Blind Flange Drilled Standard $12.00

Lot No. 231. 6" flange, not drilled, 16" diam., 22½ degree Angle..... $5.00

Lot No. 1. 12" Flanged Strainers, flanges 12"x20½", 17⅜" bolt circle, 8 1¼" bolt holes $12.00

Lot No. 3. 6" Threaded Blow-Off Cock $4.00

Lot No. 64. 5" Screwed Expansion Joint $8.00

Lot No. 63. 6" Screwed Expansion Joint $10.00

Lot No. 174. 14" Extra Heavy Expansion Joint $100.00

Lot No. 182. 16" Extra Heavy Flanged Expansion Joint $125.00

Lot No. 168. 16" Extra Heavy Flanged Expansion Joint, 24" traverse..... $125.00

Lot No. 179. 18" Extra Heavy Flanged Expansion Joint $150.00

Lot No. 78. Three Automatic Water Feeds, 1" steam, 3" suction, 2½" discharge $8.00

Lot No. 122. ¾" Hook Plates, assorted from 4 to 8 hooks.

Lot No. 193. 4" 3 way screw cocks. $3.00

Lot No. 238. 4" Standard Flanged Caps $0.75

Lot No. 237. 6" Standard Flanged Cap $1.00

BRASS VALVES

Second Hand. Almost as Good as New

Lot No. V. 300. Brass Valves, ⅛" Globe Valves $0.22

Lot No. V. 301. ½" Angle Valves.. .22
Lot No. V. 302. ½" Check Valves.. .20
Lot No. V. 303. ½" Gate Valves... .30
Lot No. V. 304. ¾" Globe Valves.. .31
Lot No. V. 305. ¾" Angle Valves.. .31
Lot No. V. 306. ¾" Check Valves.. .27
Lot No. V. 307. ¾" Gate Valves... .35
Lot No. V. 308. 1" Globe Valves... .45
Lot No. V. 309. 1" Angle Valves... .45
Lot No. V. 310. 1" Check Valves... .40
Lot No. V. 311. 1" Gate Valves.... .50
Lot No. V. 312. 1¼" Globe Valves. .60
Lot No. V. 313. 1¼" Angle Valves. .60
Lot No. V. 314. 1¼" Check Valves. .50
Lot No. V. 315. 1¼" Gate Valves.. .65
Lot No. V. 316. 1½" Globe Valves. .75
Lot No. V. 317. 1½" Angle Valves. .75
Lot No. V. 318. 1½" Check Valves. .65
Lot No. V. 319. 1½" Gate Valves.. 1.00
Lot No. V. 320. 2" Globe Valves... 1.25
Lot No. V. 321. 2" Angle Valves... 1.25
Lot No. V. 322. 2" Check Valves... 1.00
Lot No. V. 323. 2" Gate Valves.... 1.50

STEAM GAUGES

In dismantling many power plants, we have secured an immense stock of steam gauges, which include gauges practically from all the best manufacturers in the country. The prices quoted below will give you some idea as to what you can save by purchasing from us. We have other sizes and makes. Ask us about them.

Lot No. 1. 30 lb. Low Pressure Iron Case Steam Gauge, made by James P. Marsh & Co., 5" dial $0.50

Lot No. 24. 30 lb. Low Pressure Iron Case Steam Gauge, made by Borden Steam Gauge Co., 4½" dial..... $0.50

Lot No. 25. 30 lb. Air Gauge, made by Bishop & Babcock Co., 5" dial..... $0.50

Lot No. 27. 30 lb. Low Pressure Iron Case Steam Gauge, made by James P. Marsh Co., 5" dial..... $0.50

Lot No. 29. 30 lb. Iron Case Steam Gauge, 4½" dial, made by James P. Marsh Co. $0.50

Lot No. 48. 30 lb. Iron Case Steam Gauge, 5" dial..... $1.00

Lot No. 83. 30 lb. Brass Case Steam Gauge, made by Ashcroft Mfg. Co., 10" dial $3.00

Lot No. 37. 80 lb. Iron Case Steam Gauge, 5" dial, made by James P. Marsh & Co. $0.50

Lot No. 35. 80 lb. Brass Case Steam Gauge, 5" dial, made by James P. Marsh & Co. $1.00

Lot No. 10. 100 lb. Iron Case Steam Gauge, made by the American Steam Gauge and Valve Co., 5" dial..... $0.50

Lot No. 46. 100 lb. Iron Case Steam Gauge, 6" dial, made by Ashcroft Mfg. Co. $0.50

Lot No. 16. 100 lb. Iron Case Steam Gauge, 5" dial, made by Ashcroft Mfg. Co. $0.75

Lot No. 40. 100 lb. Iron Case Steam Gauge, made by Ashcroft Mfg. Co., 5" dial $0.75

Lot No. 36. 100 lb. Iron Case Steam Gauge, 5" dial, made by Ashcroft Mfg. Co. $0.75

Lot No. 75. 100 lb. Iron Case Steam Gauge, 10" dial, made by Ashcroft Mfg. Co. $2.00

Lot No. 63. 100 lb. Iron Case Steam Gauge, 10" dial, made by Ashcroft Mfg. Co. $2.00

Lot No. 62. 100 lb. Iron Case Steam Gauge, 10" dial, made by Ashcroft Mfg. Co. $2.00

Lot No. 61. 100 lb. Iron Case Steam Gauge, 10" dial, made by Ashcroft Mfg. Co. $2.00

Lot No. 56. 100 lb. Iron Case Steam Gauge, 10" dial, made by Ashcroft Mfg. Co. $2.00

Lot No. 33. 100 lb. Brass Case Steam Gauge, 6" dial, made by the Utica Steam Gauge Co. $2.00

Lot No. 7. 120 lb. Iron Case Steam Gauge, 4" dial..... $0.50

Lot No. 52. 125 lb. Brass Case Steam Gauge, 6" dial, made by James P. Marsh Co. $1.00

Lot No. 9. 180 lb. Iron Case Steam Gauge, 5" dial, made by Schaeffer-Budenberg Co. $0.50

Lot No. 17. 160 lb. Iron Case Steam Gauge, 4½" dial, with a pigtail syphon and gauge cock, made by R. A. Wood Co.. $0.50

Lot No. 26. 160 lb. Iron Case Steam Gauge with a gauge cock and syphon, 5" dial, made by Ashcroft Mfg. Co..... $0.50

Lot No. 41. 160 lb. Iron Case Steam Gauge, 5" dial..... $0.50

Lot No. 51. 180 lb. Iron Case Steam Gauge, 6" dial, made by the American Steam Gauge and Valve Co..... $1.00

Lot No. 53. 160 lb. Iron Case Steam Gauge, 10" dial, made by James P. Marsh Co. $1.00

Lot No. 12. 150 lb. Iron Case, 5" dial, made by Schaeffer-Budenberg Co., Ammonia Gauge $1.00

Lot No. 32. 140 lb. Brass Case Steam Gauge, 8" dial $2.00

Lot No. 6. 200 lb. Iron Case Steam Gauge, 5" dial, made by the Utica Steam Gauge Co. $0.50

Lot No. 8. 200 lb. Iron Case Steam Gauge, 5" Dial, made by the American Steam Gauge and Valve Company..... $0.50

Lot No. 14. 200 lb. Iron Case Steam Gauge, 5" dial..... $0.50

Lot No. 50. 200 lb. Iron Case Steam Gauge, 6" dial, made by the American Steam Gauge and Valve Co..... $0.50

Lot No. 43. 200 lb. Iron Case Steam Gauge, 6" dial..... $0.50

Lot No. 85. 200 lb. Iron Case Steam Gauge, 5" dial, made by James P. Marsh & Co. $0.50

Lot No. 86. 200 lb. Iron Case Steam Gauge, 5" dial, made by the American Steam Gauge and Valve Co..... $0.50

Lot No. 88. 200 lb. Iron Case Steam Gauge, 5" dial, made by Schaeffer-Budenberg Co. $0.50

Lot No. 90. 200 lb. Iron Case Steam Gauge, 5" dial, made by James P. Marsh & Co. $0.50

Lot No. 89. 200 lb. Brass Case Steam Gauge, 6" Dial, made by Standard Gauge Co. $1.00

Lot No. 34. 200 lb. Iron Case Steam Gauge, 8" dial, made by Schaeffer-Budenberg Co. $1.00

Lot No. 54. 200 lb. Iron Case Steam Gauge, 10" dial, made by Crosby Steam Gauge Co. $2.00

Lot No. 57. 200 lb. Iron Case Steam Gauge, made by Crosby Steam Gauge Co., 10" dial $2.00

Lot No. 59. 200 lb. Iron Case Steam Gauge, made by Bellfield & Co..... $2.00

Lot No. 64. 200 lb. Iron Case Steam Gauge, made by James P. Marsh Co., 10" Dial $2.00

Lot No. 69. 200 lb. Iron Case Steam Gauge, 10" dial..... $2.00

MISCELLANEOUS DEPARTMENT—Continued

Lot No. 68. 200 lb. Iron Case Steam Gauge, 10" dial, made by James P. Marsh Company $2.00

Lot No. 67. 200 lb. Iron Case Steam Gauge, made by James P. Marsh Co., 10" dial $2.00

Lot No. 66. 200 lb. Iron Case Steam Gauge, 10" dial, made by Crosby Steam Gauge Co. $2.00

Lot No. 60. 200 lb. Brass Case Steam Gauge, 10" dial, made by James P. Marsh Co. $3.00

Lot No. 65. 200 lb. Brass Case Steam Gauge, 10" dial $3.00

Lot No. 80. 200 lb. Brass Case Steam Gauge, 10" dial, made by Crosby Steam Gauge Co. $3.00

Lot No. 79. 200 lb. Iron Case Steam Gauge, 16" dial, made by Schaeffer-Budenberg Co. $5.00

Lot No. 78. 200 lb. Iron Case Steam Gauge, 18" dial, made by Schaeffer-Budenberg Co. $5.00

Lot No. 77. 200 lb. Brass Case Tripod Steam Gauge, 16" dial, made by James P. Marsh Co. $6.00

Lot No. 76. 200 lb. Brass Case Tripod Steam Gauge, 16" dial, made by James P. Marsh & Co. $6.00

Lot No. 73. 250 lb. Brass Case Steam Gauge, 10" dial, made by Utica Steam Gauge Co. $4.00

Lot No. 38. 300 lb. Brass Case Steam Gauge, 5" dial, made by Star Brass Co. $1.00

Lot No. 23. 300 lb. Ammonia Gauge, 4½" dial, made by Crosby Steam Gauge Co. $1.00

Lot No. 44. 800 lb. Special Water Works Gauge, made by Ashcroft Mfg. Co. $10.00

Lot No. 18. Vacuum Gauge Iron Case, 5½" dial, for 15 lbs. of pressure and 30 ft. of vacuum, made by the Steel Brass Co. $1.00

Lot No. 47. Revolution Counter, 8" dial, brass case, made by the Ashcroft Mfg. Co. $5.00

Lot No. 31. 1,000 lb. Iron Case Steam Gauge, 6" dial, made by the Ashcroft Manufacturing Co. $1.00

Lot No. 165. 200 lb. Steam Gauges, made by Schaeffer & Budenberg Co., brass case, 12" dial $10.00

Lot No. 182. Crosby Recording Pressure Gauges, 6" dial, brass case $10.00

Lot No. 181. Bristol Recording Pressure Gauges, 8" dial, brass case $15.00

Lot No. 180. Columbia Recording Pressure Gauges, brass case, 8" dial, made by Schaeffer & Tuber Co. $20.00

INJECTORS—GOOD AS NEW

Lot No. 92. Watson Injector, ½" connections $1.00

Lot No. 102. No. 1 Garfield Automatic Injector $2.00

Lot No. 96. Injector with ¾" connection $2.00

Lot No. 95. No. 3 Hart Improved Injector, ¾" connection $2.00

Lot No. 94. Watson Injector, ½" connection $2.00

Lot No. 100. No. 4 Automatic Chief Injector $2.50

Lot No. 101. No. 1 Automatic Injector $2.50

Lot No. 99. No. 1 Leader Injector, ⅝" steam pipe, ⅝" suction, ⅝" feed, 60 gal. per hour, 60 lbs. steam $2.50

Lot No. 98. Hancock Inspirator, ¾" connection $3.50

Lot No. 97. No. 10 Leader Injector, 1¼" connection, 1,000 gal. per hour, 60 lbs. steam $10.00

Lot No. 93. No. 10 Metropolitan Injector, 1¼" connection $5.00

LUBRICATORS

We have lubricators of all sizes and makes. Our prices on them certainly are rock bottom.

Lot No. 153. Plain Brass Lubricator, 2" body, 318" connection $0.30

Lot No. 121. 1½ pt. Single Connection Sight Feed Brass Lubricators $1.00

Lot No. 107. Glass Lubricators, ½" shank $1.00

Lot No. 155. Second-hand Sight Feed Brass Lubricators, ranging in size from ½ pt. to ½ pt. These lubricators have accumulated in our purchase of machinery and are of well known makes and patterns. If you will advise your wants, referring to lot No. 155, we shall be pleased to fill your order at, each $1.50

Lot No. 161. 1 pt. double connection sight feed lubricators $1.50

Lot No. 91. Oil Pump Lubricators, 4" high, 4" diameter, ½" connection $1.50

Lot No. 151. 1 qt. Brass Lubricators, 4" body, ½" female shank $2.00

Lot No. 117. 1 qt. Detroit Double Connection sight feed lubricators $2.50

Lot No. 169. 1 qt. Double Connection Sight Feed Brass Lubricators $4.00

Lot No. 104. Double Connection Sight Feed Detroit Lubricators, ½ gal. $4.00

OIL CUPS

Can you beat these prices? Our goods, too, are right. You cannot do anything better than to order some of these today.

Lot No. 159. This lot consists of a number of small compression grease cups, ranging in size from 1" to 2". We are anxious to move these small grease cups and will give you your choice at, each $0.10

Lot No. 158. This lot consists of 100 compression grease cups, 2" body, 2½" diameter, each $0.05

Lot No. 149. Plain Brass Oil Cup, 1½" body, ¼" shank, each $0.20

Lot No. 148. Sight Feed Oil cups, 1½" body, ⅜" shank $0.20

Lot No. 150. This lot consists of both sight feed and plain brass oil cups, ranging in size from ¾" body to 2" body. We have about 250 of these small oil cups in this lot and are positive we can supply your wants if you will advise us the connection of your pipe. In order to close these oil cups out at once we are offering them at, each $0.25

Lot No. 142. Round Glass Oil Cup, 2" diameter, ⅜" connection $0.75

Lot No. 141. Oil Cup, 2" body, ⅜" connection $0.25

Lot No. 147. Glass Oil Cup, 2" body, ⅜" connection $0.25

Lot No. 143. Glass Oil Cup, 2" body, ¾" connection $0.25

Lot No. 146. Glass Sight Feed Oil Cup, 2" body, ⅜" connection $0.30

Lot No. 145. Glass Index Oil Cup, 2" body, ⅜" connection $0.30

Lot No. 157. This lot consists of 60 Compression Grease Cups, 3" body $0.35

Lot No. 147½. Crank Oiler, 2½" body, ⅜" shank $0.35

Lot No. 134. Glass Sight Feed Oil Cup, 3" body, ½" shank $0.40

Lot No. 140. Oil Cup, 3" body, ½" connection $0.40

Lot No. 144. Lunkenheimer Index Glass Sight Feed Oil Cup $0.50

Lot No. 129. Sight Feed Oil Cup, 2½" body, ½" connection $0.50

Lot No. 122. Brass Oil Cup, 2½" body, ¾" connection $0.50

Lot No. 120. Glass Oil Cup, 2½" body, ¾" connection $0.50

Lot No. 112. Powell Patent Signal Index Sight Feed Oilers, 2½" body, ½" connection $0.50

Lot No. 111. Sight Feed Oil Cup, 3" diameter, 2½" high, ½" connection $0.50

Lot No. 126. Sight Feed Oil Cup, 4½" body, ¾" case $1.25

Lot No. 152. Sight Feed Glass Oil Cup, 4½" high $1.50

Lot No. 124. 3 Oil Cups, 6" high, 4½" body, ¾" connection. These cups are fitted with legs to fasten to the wall $2.00

Lot No. 110. Index Oil Cup, 3½" high, 3" diameter, ½" connection $2.50

Lot No. 105. Brass Sight Feed Oil Cups, 1 qt. capacity, 1" pipe shank $3.00

MISCELLANEOUS BRASS GOODS

We are constantly receiving all kinds of goods in this line and our stock is always changing. Send us a list of your wants for anything in this line. We are sure that we can satisfy you as to quality and price.

Lot No. 167. We have the following brass gate valves which have never been used but which have become somewhat dirty from lying in stock. If you can use brass gates of these sizes we will quote you the following low prices:

Lot No. 166. 2½" Brass Gate Valves $3.00

3" Brass Gate Valves $4.00

Lot No. 166. We have a stock at the present time of a lot of Brass Angle Valves, which have become shop worn, which we are unable to sell as new valves. These valves are of such well known makes as Crane, Lunkenheimer and Scott, and in order to move them we will quote the following low prices:

1¼" Brass Angle Valves $0.60
1½" Brass Angle Valves $0.75
2" Brass Angle Valves $1.25
2½" Brass Angle Valves $2.50
3" Brass Angle Valves $3.25

Lot No. 163. 1¼" Kippfel & Thomas Pressure Regulating Valves $10.00

Lot No. 162. Chime Whistle, complete with valve, 1¼" connection $10.00

Lot No. 103. No. 1 Blakesly Steam Jet Pump, 1" suction, ¾" discharge, ½" steam pipe, force ¼" steam opening. Capacity 15 gal. per minute $1.00

Lot No. 106. Glass Oil Pump, 6" high, 5" diameter, 1" connection $4.00

Lot No. 109. Mason Ejectors, 1¼" connection $5.00

Lot No. 156. This lot consists of brass steam whistles, complete with spring valves. Before shipping them out on orders they are thoroughly tested and found to be in good condition. Note the prices:

1" body, ½" connection $0.50
1½" body, ½" connection $0.75
2" body, ¾" connection $1.00
3½" body, 1" connection $2.00
3" body, 1" connection $1.50

4" Brass Y Valves, second-hand, good condition $5.50

COTTON BELTING

For Elevator Purposes

Lot No. 304. We have in stock at the present time a lot of 20-inch, 4-ply, and 30-inch, 4-ply Cotton Belting in the lengths listed below. These belts are very good for elevator purposes. We must move them, however, to make room for our fast increasing stock and, therefore, quote the following exceptionally low prices:

Item No.	Wdt. in in.	Ply.	Length in ft.	Price per ft.
CB-31	20	4	80	$0.23
CB-32	20	4	95	.23
CB-33	20	4	100	.23
CB-34	20	4	120	.23
CB-35	20	4	125	.23
CB-36	20	4	140	.23
CB-37	20	4	150	.23
CB-38	30	4	85	.42
CB-39	30	4	100	.42
CB-40	30	4	110	.42
CB-41	30	4	125	.42
CB-42	30	4	140	.42
CB-43	30	4	155	.42

STEAM PISTON PACKING

Lot No. 305. In our stock at the present time we have a large quantity of Round Steam Piston Packing in sizes from 1-inch to 2-inch, inclusive. This packing is made of braided cotton, with a rubber core in the middle. We would like to submit you a sample, and, should same prove satisfactory, we will sell this packing to you at per pound $0.10

RAWHIDE TRANSMITTING ROPE

Lot No. 306.

No. of lengths.	Size of lengths.	Price.
1	220′ 1″	$22.00
1	200′ 1″	20.00
1	110′ 1″	11.00
1	110′ 1″	11.00
1	150′ 1″	15.00
1	90′ 1″	9.00
1	40′ 1″	4.00
1	29′ 1″	1.50
1	70′ 1¼″	7.00
1	100′ 1¼″	10.00

MISCELLANEOUS DEPARTMENT—Continued

SPECIAL BARGAINS OF I BEAMS, CHANNELS, GIRDERS AND CAST COLUMNS

Lot No. 1800. With reference to Structural Iron we are in a position to save you money on anything in this line. Our material is just as good as new. We are enumerating below some special items that we will sell very cheap.

5" I Beams
50 12¼#, 5' 6".
50 9¾#, 6'.

6" I Beams
50 12¼#, 5'.
25 12¼#, 6'.
25 14¾#, 6' 6".

8" I Beams
50 20¼#, 5'.
25 20¼#, 6'.
25 20¼#, 7'.
20 18#, 6'.
40 18#, 7' 6".

9" I Beams
25 25#, 5'.
40 25#, 6'.
40 25#, 7'.
25 25#, 8'.
50 21#, 5'.
50 21#, 6'.
30 21#, 7'.
25 21#, 8'.

10½" I Beams
100 35#, 7' to 9'.
50 35#, 10'.
50 35#, 10' 6".
25 35#, 11'.
75 35#, 12'.
50 35#, 14'.

12" I Beams
100 40#, 9' to 11'.
400 40#, 12' 4".
50 40#, 13' 6".
50 40#, 14'.
10 50#, 11' 6".
10 50#, 11'.

15" I Beams
25 42#, 10'.
15 42#, 12'.
25 42#, 13'.
40 42#, 14'.

24" I Beams
22 100#, 23' 10".
4 100#, 16'.

8" Channels
50 6'.
50 7'.
25 8'.

9" Channels
40 6' 6".
25 7'.
25 8'.

10" Channels
25 6' 6".
40 7'.
25 8'.

12" Channels
25 6' 6".
35 7'.
25 8'.

Cast Columns
100 9", 1" metal, 12' long, 13½" round flanges top and bottom. 14" top flanges.

3 10" 1¼ metal 18' 3" long, 18"x18" flanges top and bottom.

4 8" 1½" metal 10' long, 24"x24" base and 14" top flanges.

I Beam Girders

4 Girders 34' 4" long. Each composed of 2 20" 75# I beams with ¾"x14" plate riveted top and bottom and 3"x3" angles each side.

4 36" Plate Girders, 33' long, made of 7/16" plate and 6"x6"x½" angles.

3 30" Plate Girders, 30' long, made of 7/16" plate and 6"x4"x⅜" angles.

STEEL FIRE DOORS

Lot No. 182. We have a number of Steel Fire Doors, which we obtained in one of our recent wrecking operations. They are made of ⅛" steel plates. The inside has a 2"x2"x⅝" angle running all around the edge of the door, three in. from the end. They also have two ⅝"x3" straps running across the door. On the outside there are three straps running almost the full width of the door. The lock is a double lever, worked by a handle which fastens into the frame when closed. These doors are complete with frames and are in the following sizes:

8' 6" high, 4' wide, ⅛" steel plate...$14.00
8' 4" high, 4' wide, ⅛" steel plate... 14.00
7' 2" high, 4' wide, ⅛" steel plate... 11.00
7' 2" high, 3' wide, ⅛" steel plate... 9.00
6' 7" high, 3' wide, ⅛" steel plate... 9.00

Lot No. 1801. Steel Fire Doors. We have a lot of double Steel Fire Doors which are practically as good as new. Height of frame, 90"; height of door, 85"; width of frame, 67"; width of doors, 60"; frame ¼" thick; door ¼" thick.

Lock is worked by handle operating 2 1" Cross lock bolts. Each.....$15.00

Lot No. 1802. Steel Fire Doors. This lot of doors are in excellent condition. They have only single door and the top is round. Height of frame, 90"; width of frame, 56"; height of door, 87"; width of door, 50"; frame ⅜" thick; door ⅛" thick.

They have 3 2¼"x⅜" straps running across the doors and lock operates 3 1¾"x⅝" bolts.....$12.00

SHOEMAKERS' NAILS

Lot No. MR62. 500 pounds Mixed Shoemakers' Nails, mostly ⅝"x15"...lb....$0.03

BATH TUBS

Lot No. M. R. 31. 25 Cast Iron Bath Tubs, roll rim, without any enamel on the inside. They are painted two coats and suitable for water troughs and can also be used for bath tubs.

Price, 5' long, each.....$6.00
Price, 5½' long, each.....$7.00

MISCELLANEOUS ITEMS

You will find in the list below some special bargains, that we have only a few of each kind. These prices you will find to be very low. If you don't find exactly what you are looking for advise us. We can undoubtedly fill your wants.

DOUBLE DECK CAR TRUCKS

Lot No. 181. This is a solid iron car with the exception of the deck, which is made of hardwood. They are 26" gauge, 12" wheels, set in roller bearing boxes. The axles are solid on the wheels, diameter of axle 1½"; length of frame 61", width of frame 34". The bottom frame is made of 3"x2½" angle iron. The upper deck is supported by four 2½"x2½" angle irons, one at each center. The angles can be taken off of the upper deck and car used as a single platform car. The decks are made of hardwood and are bolted to iron frame with 1½"x1½" angle iron. They are second-hand but in good condition. We will paint them up and put them in first class condition before shipment. They were originally made by the Ironclad Dryer Co.....$10.00

BRAND NEW FEED GRINDERS

Lot No. 63. This mill has a shut-off in the feed which will allow it to be reduced or increased in capacity as desired, depending upon the amount of power to be used. It has the best cob breaker and the best natural feed. It will not choke and will not heat the grain.

Directions for Operating

These mills are shipped set up complete except the hopper, which is easily placed on the mill by putting the three rods in their places and screwing down with the thumb screws. Set the mill in line with the power applied; that is, the shaft of the mill must be parallel to the driving shaft. Put smooth side of belt next to pulley and be sure mill is level. Should your belt slip apply castor oil. Before starting mill separate the burs by turning small hand wheel No. 35. After the mill is started adjust the burs to the fineness required. In starting the mill we advise grinding coarse for the first ten minutes, allowing the burs to become warmed and adjusted to the work. Start your mill with the brass cut-off closed and then open to allow the grain to pass in burs in quantity dependent upon the fineness you are grinding and amount of power you are using. The burs are made of white metal, very hard and true. THEY ARE INTENDED FOR CORN AND COB GRINDING, as well as for shelled corn and all grain for feed purposes.

The mill can be run by belt power, either horse, windmill, engine or electricity, and should be run at a velocity of between 750 and 1,000 revolutions...$25.00

Lot No. 66. Same as above without Cob Crusher, each.....$20.00

LAG SCREWS

Lot No. MR64. 10,000 pounds Lag Screws, one size in a case. New, but some of them are rusty. Sizes as follows: 5 16"x3½", 5 16"x4", 5 16"x5"; a lb....$0.04

FIRE EXTINGUISHERS

Lot No. MR70. One copper 3-gal. Still Alarm Fire Extinguisher.....$6.00

BACK WATER TRAPS

Lot No. 296. One 8" Palmer's Back Water Trap, new.....$5.00

Lot No. 297. Two 4" Palmer's Back Water Traps, new.....$2.50

SMOKE STACK PLATES

Lot No. M50. 5 carloads of heavy Smoke Stack Plates; size, 5"x16½", 3/16" and ¼" thick, punched and good as new for further service. Write for price.

RANGE BOILERS

Lot No. MR78. 100 second-hand Galvanized Range Boilers, not guaranteed as to the test they will stand, which we offer as follows:

30 gallons, each.....$4.00
35 gallons, each..... 4.50
40 gallons, each..... 5.50
50 gallons, each..... 6.50
60 gallons, each..... 7.00

KITCHEN SINKS

Lot No. MR80. 250 Glazed Porcelain Kitchen Sinks, size 18"x30", 20"x30", 22"x30" and other sizes. These are fitted with waste hole and rubber plug and are suitable for hog troughs or other purposes of this kind. The glazing is defective in spots; each.....$1.50

SECOND-HAND TACKLE BLOCKS

Lot No. 421. Wood Shell Tackle Blocks:
3" single, for ⅜" rope.....$0.10
3" double, for ⅜" rope..... .17
3" triple, for ⅜" rope..... .20
4" single, for ½" rope..... .12
4" double, for ½" rope..... .20
4" triple, for ½" rope..... .25
5" single, for ⅝" rope..... .13
5" double, for ⅝" rope..... .22
5" triple, for ⅝" rope..... .27
6" single, for ¾" rope..... .15
6" double, for ¾" rope..... .25
6" triple, for ¾" rope..... .35
7" single, for ⅞" rope..... .16
7" double, for ⅞" rope..... .28
7" triple, for ⅞" rope..... .40
8" single, for 1" rope..... .20
8" double, for 1" rope..... .35
8" triple, for 1" rope..... .50
10" single, for 1⅛" rope..... .30
10" double, for 1⅛" rope..... .55
10" triple, for 1⅛" rope..... .75
12" single, for 1¼" rope..... .50
12" double, for 1¼" rope..... .85
12" triple, for 1¼" rope..... 1.25
14" single, for 1⅜" rope..... .95
14" double, for 1⅜" rope..... 1.40
14" triple, for 1⅜" rope..... 1.95
15" single, for 1½" rope..... 1.10
15" double, for 1½" rope..... 1.75
15" triple, for 1½" rope..... 2.25

MISCELLANEOUS TACKLE BLOCKS

Lot No. 121. 4 12" Extra Heavy Wood Snatch Blocks, will take up to 1½" rope.....$4.00

Lot No. 120. 3 14" Extra Heavy Wood Snatch Blocks, will take up to 1¾" rope.....$5.00

Lot No. 119. 6 20" Extra Heavy Wood Snatch Blocks, will take up to 2½" rope.....$12.00

Lot No. 118. 6 24" Triple Bullock Brand Extra Heavy Wood Shell Tackle Blocks, will take up to 3½" rope.....$20.00

Lot No. 103. 1 12" Single Wire Rope Block.....$3.00

Lot No. 108. 1 12" Double Wire Rope Block.....$4.50

Lot No. 116. 1 14" Double Wire Rope Block.....$4.50

Lot No. 114. 1 16" Single Wire Rope Block.....$4.50

Lot No. 115. 1 16" Triple Wire Rope Block.....$7.50

Lot No. 112. 1 18" Single Wire Rope Block.....$5.00

Lot No. 113. 4 18" Double Wire Rope Blocks.....$7.00

Lot No. 101. 1 8" Single Male Iron Block.....$0.50

Lot No. 105. 1 8" Double Steel Tackle Block.....$0.35

Lot No. 102. 1 12" Double Steel Tackle Block.....$1.50

Lot No. 109. 2 24" Steel Snatch Blocks.....$12.00

Lot No. 106. 1 8" Wrought Iron Gin Block, for manila rope.....$1.25

Lot No. 110. 2 14" Wire Rope Gin Blocks.....$3.50

Lot No. 104. 1 16" Wrought Iron Gin Block, for Wire Rope.....$4.50

Lot No. 111. 2 18" Double Wire Rope Gin Blocks.....$12.50

Item No. D. 500 feet White Italian Marble Wainscoting, 5" wide, ⅞" thick; in first class condition; second-hand. Per lineal foot.....$0.15

Item No. E. 100 second-hand Italian Marble Slabs, with backs, ranging in size from 20" to 24" to 24x48", and from 1¼" to 1½" thick. These are in good condition, the defects are stains without cracks. They are for 14", 15" and 16" round basins, and 41"x17" to 15"x19" oval basins. Each.....$2.50

Item No. F. 10 Tennessee Quarter Circle Corner Slabs for 14"x17" basins. They are 24"x24"; complete with 12" back, 1¼" thick. They are in excellent condition, no cracks and no stains. Either 1 or 2-cock holes.....$3.00

Item No. G. 14 Quarter Circle Italian Marble Corner Slabs; complete with backs, for 14" round and 14"x17" oval basins, ranging from 20"x20" to 24"x24"; the backs from 8" to 12" high; second-hand; the defects are stains. Each.....$2.25

Item No. H. 6 mantel tops of Tennessee Marble, 78" long, 16" wide, 1⅛" thick. Each.....$4.00

MISCELLANEOUS DEPARTMENT—Continued

SORGHUM MILL

Lot No. 854. One Triple Geared Sorghum Mill, with three rolls, one roll 18" diameter by 9" face, and two rolls 9" diameter by 9" face; all complete with driving pulley, mounted on heavy wood frame, in first class condition.

BOILER TUBES

Lot No. M. R. 86. 2,000' second-hand Boiler Tubes, size 1¼", per ft. $0.04
Lot No. M. R. 87. 500' 1½" second-hand Boiler Tubes, per ft. $0.05

CASING

Lot No. M. R. 88. 1,500' 6⅝" outside diameter Wrought Iron Lap Welded Casing, not threaded; suitable for columns or for conducting water where no connection is required; per ft. $0.25

PACKING

Lot No. M. R. 10. 5,000 pounds of large size, square branded flax packing and round rubber cord packing for high pressure work; size 1" and larger, per lb. $0.04

Lot No. 274. These wonderful Sweepers came to us from the World's Fair, St. Louis. They are the most practical sweepers manufactured. Were used in keeping clean the highways of the exposition. They are named the "Peerless," and are fully deserving of the name. Useful for parks, public buildings, factories, theaters, hotels, etc. We have 20 of them. Each, with extra brush $25.00

Lot No. 610. Forty Steel Asphalt Scrapers, made by the Austin Mfg. Co., for use at the St. Louis World's Fair. Good as new $2.00

Lot No. M. 40. Medium size Recks Copper Fire Extinguishers, without supplies, each $4.50

Lot No. M. 41. Fire Department Harness Holders, per set $3.00

Lot No. M. 42. 25 Babcock Fire Extinguisher Holders, each $0.50

Lot No. M. 43. Sulphuric Acid, for use on Babcock Fire Extinguisher charges. Price on application.

Lot No. M. 44. Bi-carbonate of Soda, 112 lbs. to the keg. Price on application.

Lot No. M. 40. 16' Firemen's Scaling Hooks, each $2.50

Lot No. 422. Heavy Wire Netting, extra heavy galvanized 2" Hexagon Mesh Fencing, suitable for chickens, rabbits or smaller animals of any kind. Made of No. 16 wire; put up 150 lineal feet to the bale. Our price is, per bale of 150 feet, as follows:

18 inches wide $1.75
24 inches wide 2.00
30 inches wide 2.50
36 inches wide 3.00

Also 100 bales made of No. 15 wire, each bale 24" wide. Price per bale, 150 lineal feet $3.00

VALVE BOXES

Lot No. L. M. 26. Round Head Extension Valve Boxes, for water or gas; diameter of shaft, 5¼", from 3' to 4' extension $2.00

BATH TUBS

Lot No. L. M. 27. Cast Iron Bath Tubs, suitable for watering troughs. These bath tubs, either through a broken rim or because the enamel is nearly all chipped off, are not suitable for use as bath tubs, but make first class watering troughs. We will furnish these with waste plug in the bottom, so that they can be well drained, and an overflow cover to cover the overflow opening near the top.

4½' tub $4.00
5' tub 4.50
5½' tub 5.00

WIRE ROPE

Lot No. 14. We have upwards of 5,000' of ⅝" used wire rope. It is six strands, 19 wires to the strand, with hemp center. This wire is not good enough for hoisting purposes, but would be serviceable for many other uses. We will sell it just as it comes. Lengths ranging from 100' to 200', price per 100' $1.00

WIRE REELS

Lot No. 321. 2,000 American Steel & Wire Co.'s Reels, ranging in sizes from 24" to 60" diameter and from 15" to 48" in width. These Reels are well made, being braced securely with ¾" rods and bolted. They are practically good as new, having seen but little service. Can be used for reeling rope, wire cable, copper wire, lead pipe, etc. $1.00

GALVANIZED TANKS

Lot No. 1200. The following is a partial list of what we have on hand in light galvanized sheet iron tanks:

Galvanized Tanks, 48" diameter, 5'8" high, open top, riveted and soldered, made of about 16-gauge iron $12.50

Galvanized Tanks, 52" diameter, 6' high, manhole on top, made sufficiently large for a man to get in. These tanks are made of corrugated iron with the exception of the top and bottom, which are flat and made of about 14 or 16 gauge galvanized iron $20.00

Galvanized Iron Open Top Tanks, 8' in diameter, corrugated sides, 25" deep. $10.00

Black Sheet Iron Tanks, open top, 7' high, 67" in diameter, sides made of about ⅛" plate, and has a copper bottom. These tanks were used at a distillery and are in good condition and excellent tanks for storage. We can, however, remove the copper bottom, if wanted, and insert a sheet iron bottom. Price with copper bottom ... $35.00
Sheet iron bottom 25.00

COUPLINGS

Lot No. M. R. 96. 30,000 Wrought Iron Pipe Couplings, ½", new but in fair condition. Price per dozen $0.12
Price each ..... .01½
Per gross 1.25
Special price in large quantities.

NIPPLES

Lot No. M. R. 97. Long Screw Nipples, brand new, in good condition.
Size, ¾"x4", each $0.02
Size, 1"x4½", each ..... .03
Size, 1¼"x5", each ..... .04

Lot No. M. R. 98. 100 10" Pipe Couplings in good condition. 100 12" Pipe Couplings in good condition. Write for prices.

Lot No. M. 47. 100 Cast Iron Coal Hole Covers, with bull's-eye glass; round and octagon shapes; any size desired. Write for complete list and low prices.

Lot No. M. 3517. 50' of 12" Spiral Conveyor.
200' of 10" Spiral Conveyor.
200' of 8" Spiral Conveyor.
100' of 6" Spiral Conveyor.

STREET CAR GONG BELLS

Lot No. S. B. 401. Two hundred Gongs that were used on street cars which we dismantled and are in first class condition in every way. The bell is 9 inches in diameter and the castings for fastening are 9½" long. They are strongly built. Will give good general service. The bell proper is made of a special steel bell metal and gives a good strong sound. Price each. $1.75

CAR WHEELS

Lot No. C. W. 101. 100 sets Car Wheels, 8" diameter wheel, 3" face, 16" gauge, 1 7/16" shaft. Wheels run loose on shaft, mounted on two pieces of angle iron, 3"x3"x¼". Complete set, consisting of 4 wheels, 2 axles and 2 pieces of angle iron. ... $4.50

STALL GUARDS

Lot No. S. G. 402. Stall Guards, 9'2" long and 2'9" high. They are made of ½" round iron bars, 2½" apart. The frame is made of 1¼" flat iron ¼" thick. Weighs about 100 lbs. $2.50

Lot No. 402. Sliding Poles for Fire Engine Houses. 22'8" long, 2¼" diameter, with acorn ornament on top $13.50

ONE SECOND-HAND HALL SAFE

Lot No. 152. Outside dimensions: Width 66", height 85", depth 40". Inside dimensions: Width 52", height 60", depth 23". Strong box: Width 48", height 28", depth 14". Fitted with double combination lock. Safe has double inside doors, fitted with two 1¼" cross lock bolts, two 1¼" vertical lock bolts and key lock. Double outside door is fitted with four 1⅛" cross lock bolts and two 1⅛" vertical lock bolts and combination lock. Approximate weight 13,000 pounds $500.00

Lot No. 188. 1 square Manhole Cover, 31" frame square, sld. 25" square, 13" high, 520 lbs.

Lot No. 828. Traveling Cranes. 2 24' span Traveling Cranes, equipped with 2 5"x4" lift air hoists, manufactured by Whiting Foundry Equip. Co.

IRON FENCE

Lot No. 189. We have one mile of wrought Iron Fence in excellent condition, 45" high x 54" long, 45" high x 43" long, 45" high x 32" long. Price per lineal ft. $0.25

HERRING'S PATENT CHAMPION JEWELERS SAFE

Lot No. 151. Outside dimensions: width, 66", height 88", depth 33". Inside dimensions. Width 51", height 62", depth 18". Strong box with double combination lock: Width 44", height 15", depth 12". Safe has double outside with five 1⅛" cross and two 1⅛" vertical lock bolts, and is fitted with combination lock. Weight approximately 10,200 pounds. Price $750.00

MARBLE TILE

Lot No. 501. White Marble Tile, 6"x6", sq. ft. $0.25
Tenn. Marble Tile, 6"x6", sq. ft. ..... .25
White Marble Tile, 8"x8", sq. ft. ..... .30
Marble Tile (as are), 12"x12", sq. ft. ... .15

MANHOLES AND COVERS

Will sell cheap

Lot No. 186. 25½"x25½" O. D. Covers, 20"x20", ¾" thick, flange 2¼", 130 lbs.
25½"x25½" O. D. Covers, 20"x20", 1¼" thick, flange 2¼", 186 lbs.
70 do. 1½" thick, 250 lbs.
27"x29" O. D. Covers, 22"x24", 1¼" thick, flange 2", 150 lbs.
36" square covers, 30" round hole, ⅝" thick, no covers.
Round 18", 60 lbs., with covers.

WHEEL BARROWS

Lot No. 431. We have 50 second-hand wood trey wheelbarrows that are designed for bulky material. They are made of properly seasoned hardwood. Size of box at top 32" wide, at wheel end 29" wide, at handle 39" long. Size of box at bottom 15" wide, at wheel 18" wide, at handle, 21" long. The box is 21" deep at wheel, 11" deep at handles. Weight about 80 lbs. Made with steel wheel. Good S. H. condition $2.00

FIRE HYDRANTS

Good as new

Lot No. 211. 4" Pratt & Cady, single connection $12.50
4" Pratt & Cady double connection ... 13.50
4" Corey double connection 13.50
8" Corey double connection 17.50
8" Pratt & Cady double connection ... 17.50
6" hub end Corey 17.50
All have 2½" hose connections.
8 have 4" steamer connections.
4 have independent valves.

Lot No. R. 121. Steamboat Ratchets, or Pulling and Pushing Jacks.

Size	Price	Size	Price
18"x1⅜"	$4.00	24"x1¾"	$ 8.00
24"x1⅜"	4.50	28"x1¾"	8.50
30"x1⅜"	4.75	30"x1¾"	9.00
36"x1⅜"	5.00	36"x1¾"	9.25
18"x1¾"	7.50	48"x1¾"	10.00

Lot No. R. 122. We have the following galvanized sheets in stock, which we will sell very low:

18 sheets, 36"x96", 18 Ga.
21 sheets, 30"x96", 18 Ga.
10 sheets, 36"x84", 18 Ga.
9 sheets, 30"x124", 18 Ga.
29 sheets, 24"x96", 16 Ga.
5 sheets, 30"x96", 12 Ga.
20 sheets, 20"x96", 18 Ga.
14 sheets, 24"x96", 14 Ga.
10 sheets, 30"x84", 18 Ga.

Lot No. R. 121. 2,000 squares second-hand Steel Roofing, 5'9" long, 24" wide, 2½" corr., light weight, free from nail holes, excellent condition, painted black both sides. Per 100 sq. ft. $1.10

Lot No. R. 101. 100 new steel Garden Rakes, selected handles, flat and solid heads, straight and curved teeth, your choice at, each $0.35

Lot No. H. 101. 25 new standard Cant Hooks. Has malleable iron clasp and extension toe ring. The hook is of crucible cast steel, ⅞"x7/16", having heavy upset head and duck bill point, each $0.50

MISCELLANEOUS DEPARTMENT—Continued

DUMP CARTS

Lot No. C. 105. 20 Contractors' Light Dump Carts, capacity 21 cu. ft. or 2,500 lbs., weight 700 lbs., strong, substantial, durable, made throughout of hardwood, strongly bolted and braced. Specially adapted for the hardest usage in handling rock, gravel, clay and other heavy material. Size of inside of box 66" long. Size of inside of box, 44" wide. Size of inside of box, 12" deep. Wheels, 54" diam. Hubs, 9" diam., 12" long. Spokes, 14 2½". Best second growth oak tires 3"x½", steel axle 2¼", square spindle 2¼"x10", wood axle bed 3¼"x8", shafts 2⅝"x3¼", with heavy crossbar 2½"x8". Excellent condition, just as good as new.....$22.50

Lot No. C. 104. Steel Coke Buggy, cap. 31 cu. ft., size of body 63" long on bottom, 57" long at top and 30" wide, 30" deep, wheels 34" diam., tire 2½"x⅝". The door or end gate is hinged at top and is locked or released by turning the unlocking rod, extended under bottom and conveniently arranged to be operated by man holding buggy at handles. Weight about 975 lbs.....$25.00

Lot No. C. 103. 4 new Mineral or Charging Carts. The weight of load is directly over the axle and owing to the large diameter of the wheels, the load is easily carried and dumped. Body 40" long, 23¾" wide, 28½" deep front, 30" deep at rear, made of No. 8 steel with corner angles. Has 1¾" square axle passing through center of body and is firmly supported by 2 re-enforcing plates. The body is mounted on 2 sarvers, patent wooden wheels 50" diameter. Weight about 550 lbs., each.....$20.00

Lot No. C. 102. New Steel Side Dump Pull Car, not intended to run on track, wheels being flat. It has drop gate on one side only. Box 61" long, 37" wide, 24" deep. Diam. of wheels 18", width of wheel 3", distance from center to center of wheels 31".....$25.00

Lot No. C. 101. New Standard Steel Sugar Car, stationary box top, is finished with rolled rim, box 60"x40" inside at top, box 40"x20" inside at bottom. Depth 29". Capacity 27 cu. ft. Gauge of track 30". Weighs about 1,000 lbs.....$25.00

Lot No. 29. Cast Iron Kettle, 40" in diameter, 20" deep, ½" thick.....$15.00

Lot No. 7. Cast Iron Round Bottom Kettles, 52" diameter, 24" deep, ⅝" thick.....$23.00

Lot No. M. R. 120. 1,000' 2½" second-hand Manila Rope, good as new, used only on one job, per ft.....$0.10½

Lot No. W. R. 5,000' 1 5/16" second-hand Wire Rope, excellent condition, per foot.....$0.10

Lot No. I. C. 120. 500' 1½" straight link Iron Chains, good as new, per ft.....$0.35

Lot No. W. L. 120. No. 5 Irwin & Welch Second Water Lift, fine condition...$20.00

Lot No. T. 501. Glycerine Drums, second hand, good as new.

	Price.
Size 32"x44"	$7.00
Size 30"x46"	7.00
Size 30"x48"	7.50

Lot No. 129. 20" Farm Bells, worked by wheels.....$3.50

Lot No. 132. 24" Farm Bells.....$4.00

Lot No. 135. 14"x6" Elevator Buckets, heavy gauge, second-hand, excellent condition, each.....$0.25

Lot No. C. D. 121. Street Car Doors, 2'4" wide, 5'11" high, glass 20"x33".....$1.00

Lot No. C. W. 122. Street Car Windows, 27" wide, 25" high, glass 21½"x29"...$0.50

Lot No. C. S. 123. Street Car Sash, 38"x 28", glass 20"x33".....$0.60

Lot No. C. S. 124. Street Car Shutters, 20½"x29", stationary slats.....$0.25

Lot No. C. G. 125. Street Car Folding Gates, 2' high x 41" over all.....$1.00

Lot No. I. T. 141. Spiral Stairway, 14'8" high, platform 4'6"x3'3", 12" high, second-hand, ask for blue print.....$125.00

Lot No. V. D. 101. Vault Doors and Frames of all sizes, kinds and makes. Excellent condition, good as new. Send us a list of your wants.

Lot No. S. C. 128. Sidewalk Covers, 16½" diam., complete with lid and ring. Plain lid. No bull's-eye.....$1.50

STEEL DUMP CARS

Lot No. S. C. 187. We have on hand 100 Steel Dump Cars, manufactured by the Sheffield Car Co. These cars are side and end dump. They are 20" wide and 46" long by 26" deep and 15" gauge. Being on a rotary platform, they can be dumped at either side or end. They are dumped by a foot trip, and door is opened by lever in rear. Capacity from 12 to 15 cubic feet. They are suitable for hauling ore. These cars have been used but are in good condition. Weigh approximately 600 lbs. each. Each.....$17.50

CAR WHEELS

Lot No. 170. We have 80 sets of good Car Wheels, size of flange 1¼", gauge 23", diameter of wheel 13", size of axle, 2", journals 1½", per set.....$10.50

CAR TRUCKS AND WHEELS

Lot No. 171. We offer 600 sets of second-hand Car Trucks in good condition, as per illustration. These trucks are of standard gauge, 4'8", diameter of wheels 31", diameter of axle 2¾". The boxes are fitted with brass journals. These trucks are suitable for construction of cars of various kinds and are especially desirable for quarry or lumber trucks or other purposes where more than an ordinary heavy truck is used. Weight per set, about 2,100 lbs. The set includes four wheels (the wheels being fast to the axles), two axles and four boxes. Price per set.....$35.00

WAREHOUSE WHEELS

Lot No. 172. 300 pair of Warehouse Wheels, dimensions as follows: Diameter of wheels, 17", with 2" face, containing 8 wrought iron spokes, built in heavy cast iron rim and hub. Spokes made of ⅝" wrought iron. These are complete with square axles, 1¼" in diameter. Extreme length from outside to outside of wheels, 35". Length of shaft inside of wheels, 27". These axles have 1½" hole close to the wheels at each end to bolt on to platform of trucks. Wheels run loose on axles.
Price per pair.....$4.00
Price per set of four.....7.00

TRUCKS

Lot No. 18 B. 120. Six iron 4-wheel trucks. Wheels are 14" in diameter and body of truck is made of 4" channels, re-enforced by flat iron, 7'4" in length over all, width 32".

STRIP TICKET HOLDERS.

Brand new, simple and effective device for holding these strip tickets so that they can be quickly handled.
No. 4-A-1521. Price, each.....$0.50

RUNWAYS

No. 4-A-1522. We sell runways for use in livery stables and other places where a sound footing for horses is required. These runways are made of second hand rubber belts and of second hand rubber hose, out of service for their manufactured purpose. We can furnish widths from 6 to 24 in. Price, per lb.....$0.05

MIXED PIPE FITTINGS

No. 4-A-1523. One lot of malleable pipe fittings. Most of them are second hand. Some are galvanized but most of them are black. We do not distinguish. They range in size from about ⅛ to 3 in., including elbows, tees, crosses, and in fact a general assortment of fittings. We sell them just as they come.
Price, per lb.....$0.05
" " " in lots of 50 lbs.....04
" " " " 100 " 03
Special prices in larger quantities.

CAST IRON WASHERS

No. 4-A-1524. A carload of standard cast iron washers in sizes ranging from ⅜ to 1½ in. bolts. These washers we furnish in mixed lots only.
Price per lb. in 500 lb. lots.....$0.01½
" " " smaller quantities.....01½

6 ton Chain Hoist, 12' lift, manufactured by Harris Machine Co., practically as good as new.....$75.00

Dutch Ovens, front 52" high, 72" long, complete with doors.....$15.00

Iron Grating for Sidewalk, 4' wide, 6' long, made of 2½"x⅜" iron, sq. ft...$0.50

Lot No. 301. 50 ft. red covered suction Hose, 1½", complete with auto. brass couplings, brand new.....$12.00

Lot No. 302. 15' 3½" wire lined suction Hose, shopworn only, enlarged ends, per foot.....$1.25

SIDE DUMPING CARS FOR OVERHEAD TRAMRAIL

Lot No. D. C. 166. This car is used on overhead tracks for handling coal and other material. It has a door on each side, which is opened and closed by hand, with a lever or if desired can be arranged to operate automatically. The bottom is inclined both ways, which permits the load to be dumped on both sides of the track. When it is desired to have the load dumped on one side only, it is fitted with a movable centerpiece, which is arranged in such a manner that it can instantly be shifted from side to side, or removed altogether when not required.

No. of car. Size.	Capacity in tons.	Width in inches.	Height from top of rail in inches.
263	1	54	50
264	1½	60	54
265	2	72	56

Length over all.	Diameter of wheels.	Wheel base.	Gauge of track.
86"	18"	30"	28"
86"	18"	32"	30"
96"	18"	36"	36"

	Price.
Size 263	$50.00
Size 264	55.00
Size 265	60.00

Large shafting which we will sell at scrap prices. Send us a list of your requirements.

1 shaft, 16" diameter, 28'9" long.
1 shaft, 16" diameter, 19'4" long.
1 shaft, 16" diameter, 5'10" long.
1 shaft, 16" diameter, 18'9" long.
1 shaft, 16" diameter, 23'0" long.
1 shaft, 13" diameter, 9'10" long.
4 shafts, 14" diameter, 17'1" long, 14" from each end turned to 12" diam.
1 shaft, 12" diameter, 22'4" long.
1 shaft, 12" diameter, 25'6" long.
1 shaft, 15" diameter, 13'8" long.
2 shafts, 12" diameter, 11'0" long.
4 shafts, 12" diameter, 13'9" long.
1 shaft, 18'4" long; 9'8" is 12" diam. on one end, 6'8" is 15" diam. 2' from end, 2'0" is 12" diam on other end; 18'4" long.
3 shafts, 12" diameter, 11'0" long.
1 shaft, 18" diameter, 16'3" long.
6 shafts, 12" diameter, 13'9" long.
1 shaft, 13" diameter, 20'0" long.
1 shaft, 13" diameter, 27'0" long.

Lot No. A. H. 10. 5,000 square feet 12"x 12" Marble Floor Tile, consisting of white Italian marble, black marble and red Tennessee marble. We can make up floors from this in alternate blocks of white and black and white and red, or in the proportion of one block of red to four of white; good as new; redressed, refinished and repolished, per square foot.....$0.35

Lot No. A. H. 11. 3,000 square feet White Italian Marble Wainscoting, some 34" high, some 38" high and some 6' to 8' high. This wainscoting will be repolished and blocks trimmed to fit your space, according to plans, at $0.60 per square foot in 5' or less in height, and $1.00 per square foot for over 5' in height.

Lot No. A. H. 12. 800 lineal feet White Italian Marble Baseboard, 4" high by ⅞" thick, per lineal foot.....$0.25

Lot No. A. H. 13. 1,000 lineal feet White Italian Marble Baseboard, 5" high, lineal foot.....$0.25

Lot No. A. H. 14. 1,000 lineal feet White Italian Marble Baseboard, 6" high, per lineal foot.....$0.35

Lot No. A. H. 15. 500 lineal feet White Italian Marble Baseboard, 8" high, per lineal foot.....$0.40

Lot No. A. H. 17. 1,000 square feet English Clay Floor Tile, straw color, size 3"x3", per square foot.....$0.16

Item No. A. H. 18. 600 square feet second-hand Italian and Tennessee marble tile. Size, 9"x9" and 10"x10". White and black. Finished on one side. Per square foot.....$0.35

Item No. C. 30. Second-hand Marble Lavatory Slabs, without backs, in excellent condition. These are for 14" and 15" round and 14"x17" oval bowls. Ranging in size from 20" to 24" up to 20"x36". Each.....$2.00

FURNITURE, CARPETS, RUGS AND OFFICE FURNITURE

A VIEW OF ONE OF OUR FURNITURE DISPLAY FLOORS ON WHICH WE EXHIBIT DINING TABLES.

OF all the great departments of our enormous institution none is greater than that devoted to the sale of articles in this line. We are constantly purchasing at "SHERIFFS' SALES"—"RECEIVERS' SALES"—"MANUFACTURERS' SALES"—"UNDERWRITERS' SALES" enormous quantities of high grade merchandise forced on the market through unfortunate business enterprises or from other unfortunate causes. **We guarantee** that every dollar's worth of merchandise in this department is strictly brand new and first class. The opportunities for securing stocks is so great that **we can easily discriminate** and sell only the best of everything. If you are looking for cheap, shoddy furniture such as is regularly sold by department stores, mail order houses, etc., you will be disappointed because you will not find that class of merchandise in our catalog. On the following pages we have endeavored to tell the plain, straight facts in the case. We are not regularly devoted to the sale of any one particular line of merchandise and, unfortunately, perhaps, it does not make us adepts in any line.

WE DO NOT EXAGGERATE.

Our descriptions are plain, cold facts; no attempt to overdraw your imagination. Our goods are selected with an eye to city trade as well as to that of our out-of-town patrons. **In Chicago our name is a synonym for quality and low prices.** We have established an enormous patronage by giving the public of Chicago and elsewhere **at least $1.30 worth of goods for every dollar paid us.** This is no idle boast, but it is a fact, that can be proven by hundreds and thousands of satisfied customers. You try us once, you will buy from us often.

THE WIDE RANGE OF OUR OPERATIONS.

Our stock embraces everything from linoleum at 27c per yard to the finest silk oriental and antique rugs, as high as $1,500.00 each; that's only by way of comparison to show you the range of goods carried in this line. It's impossible for us to list every single article in this great furniture and rug department. It's an ever changing and panoramic merchandise story at all times. As you come to know us better, you will learn to appreciate all the wonderful opportunities of our business, and you will act quickly when these astonishing bargains of ours are called to your attention. Bargains wait for no man. It's the early buyer that gets the best bargains, and that's why we respectfully urge upon you a quick selection of any of the articles you will find in the following pages.

OUR COLORTYPE REPRODUCTIONS.

At a great expense we illustrate reproductions of our beautiful rugs, showing their actual colors and designs. You cannot possibly go wrong in your selection, and it gives you a chance to purchase even though you are 3,000 miles away from us. You can buy from us with safety and confidence. OUR BINDING GUARANTEE is so strong that you are protected at all times. If you purchase any goods from us that are in any way different than our description, or that are not a faithful reproduction of the article described, you have our guarantee that we will either take back such merchandise or we will replace it, or take care of your reasonable complaint. We are looking only for satisfied customers. We know that's the way to build up our business and we faithfully observe every line that leads to real success. We advise in selecting any articles in this department that you give us first, second and third choice whenever possible, or outline your desires and place the matter of selection upon our shoulders. We will so select as to cause you as much satisfaction as possible. We know the value of a satisfied customer. If you want further information, write us.

No. 23-A-1. Heavy Wool Brussels, all fast colors; dependable wearing assured.
Size 8 ft. 3 in. x 10 ft 6 in..$ 8.25 Size 9 x 12 ft.....$10.15
Size 11 ft. 3 in. x 12 ft....$13.25.

Kazak Brussels Rugs

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339.

No. 23-A-2. Beautiful Floral Pattern Parlor Rugs, in a heavy quality of brussels.
Size 8 ft. 3 in. x 10 ft. 6 in...$8.25 Size 9 x 12 ft.....$10.15

No. 23-A-3. High grade Wool Brussels Rugs, rich green ground; a desirable Oriental effect, suitable for any room.
Size 8 ft. 3 in. x 10 ft. 6 in...$8.45 Size 9 x 12 ft.....$10.35
Size 11 ft. 3 in. x 12 ft.....$13.60

No. 23-A-4. Same as the above in the red color as shown and illustrated.

Kazak Brussels Rugs

We save you 30 to 60 per cent on rugs, carpets and linoleum.

No. 23-A-5. Choice Floral Design Wool Brussels Rugs, extra heavy quality; one of the choicest floral designs it is possible to procure.
Size 8 ft. 3 in. x 10 ft. 6 in...$8.45 Size 9 x 12 ft.....$10.35
Size 11 ft. 3 in. x 12 ft.....$13.60

For further description of these and other rugs illustrated in this colortype section, see pages 338 and 339.

Moussoul Brussels Rugs

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339

No. 23-A-6. Heavy quality, choice grade Brussels Rugs.
Size 6 x 9 ft. . . . . $ 6.35
Size 8 ft. 3 in. x 10 ft. 6 in., one seam 10.70
Size 9 x 12 ft., one seam $12.70
Size 10 ft. 6 in. x 12 ft. . 15.25

No. 23-A-7. Fine quality Wool Brussels Rugs; handsome floral design.
Size 6 x 9 ft. . . . . $ 6.35
Size 8 ft. 3 in. x 10 ft. 6 in. . 10.70
Size 9 x 12 ft. $12.7
Size 11 ft. 3 in. x 12 ft. 16 2

Terrahan Brussels Rugs

We buy at sheriffs', receivers' and manufacturers' sales and are always in a position to save you money on merchandise of all kinds.

No. 23-A-8. Fine Terrahan Brussels Rugs. Best quality brussels rugs. These are absolutely the best grade of ten wire brussels made; choice Oriental pattern.
Size 9 x 12 ft. . . . $16.25
Size 11 ft. 3 in. x 12 ft. $21.25

No. 23-A-9. Terrahan best quality ten wire Brussels Rugs in a choice Orienta design, exactly like above illustration.
Size 6 x 9 ft. . . . . $ 8.50
Size 8 ft. 3 in. x 10 ft. 6 in. . 14.50
Size 9 x 12 ft. $16.2
Size 11 ft. 3 in. x 12 ft. . . . 21.2

FOR FURTHER DESCRIPTION OF THE RUGS LISTED ABOVE SEE PAGE 338.

Meshed Velvet Rugs

These illustrations are reproduced from the rugs and show exactly how they appear without exaggeration or misrepresentation.

No. 23-A-10. Meshed Velvet Rugs, either red or green ground, as shown in illustration. **No. 23-A-10½.** Same as above in tan ground.
Size 9 x 12 ft. **$14.55**

No. 23-A-11. Meshed Velvet Rug; beautiful floral parlor design.
Size 9 x 12 ft. **$14.55**

Khorasan Smyrna Rugs

We guarantee these rugs to be exactly as represented. Money refunded if found contrary to representation.

No. 23-A-12. Khorasan Smyrna Rugs; reversible; exceptional values.
Size 6 x 9 ft. . . . . **$3.65** Size 7 ft. 6 in. x 10 ft. 6 in. . . . **$5.25**
Size 9 x 12 ft. **$7.25**

No. 23-A-13. Khorasan Smyrna Rugs; good quality; high grade.
Size 6 x 9 ft. . . . . **$3.65** Size 7 ft. 6 in. x 10 ft. 6 in. . . . **$5.25**
Size 9 x 12 ft. **$7.25**

FOR FURTHER DESCRIPTION OF THESE RUGS SEE PAGE 338.

Royal Iran Wilton Velvet Rugs

The patterns on this page represent the highest achievements of the rug weaver's art.

No. 23-A-14. Royal Iran Wilton Velvet Rugs. Extra heavy quality; choice Oriental design.
Size 9 x 12 ft. $15.75
Size 10 ft. 6 in. x 12 ft. 19.85

No. 23-A-15. Royal Iran Wilton Velvet Rugs; choice scroll design.
Size 9 x 12 ft. $15.7
Size 10 ft. 6 in. x 12 ft. 19.8

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339

Royal Isphan Wilton Velvet Rugs

We save you 30 to 75 per cent on rugs of the highest quality.

You can't go wrong if you buy from us

No. 23-A-16. Royal Isphan Wilton Velvet Rugs; handsome floral design.
Size 9 x 12 ft. $15.75
Size 10 ft. 6 in. x 12 ft 19.85

No. 23-A-17. Royal Isphan Wilton Rug; beautiful Persian design.
Size 9 x 12 ft. $15.7

FOR FURTHER DESCRIPTION OF THESE RUGS SEE PAGE 338.

No. 23-A-18. Tabriz Seamless Wilton Velvet Rugs.
Size 9 x 12 ft. $19.75

Tabriz Seamless Wilton Velvet Rugs

We guarantee these rugs the best value ever offered at the low prices we quote.

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339.

No. 23-A-19. Tabriz Seamless Wilton Velvet Rugs.
Size 8 ft. 3 in. x 10 ft. 6 in. $17.25
Size 9 x 12 ft. 19.75

No. 23-A-20. Mahal Seamless Wilton Velvet Rugs.
ize 8 ft. 3 in. x 10 ft. 6 in. $18.25
ize 9 x 12 ft. 21.00

Mahal Seamless Wilton Velvet Rugs

Comparison of our prices with those of others will conclusively demonstrate our ability to save you money.

No. 23-A-21. Mahal Seamless Wilton Velvet Rugs.
Size 9 x 12 ft. $21.00

FOR MORE COMPLETE INFORMATION AS TO THESE RUGS SEE PAGE 338.

No. 23-A-22. Sarouk Axminster Rugs. Quality is the best. Newest pattern this season.
Size 36 x 72 in.....**$3.25** Size 8 ft. 3 in. x 10 ft. 6 in..**$16.45**
Size 9 x 12 ft.....**$19.45**

Sarouk Axminster Rugs

New rugs of the finest and costliest manufacture at wrecking prices. Can you beat this combination?

No. 23-A-23. Sarouk Axminster Rugs. Extremely handsome colors and exquisite pattern.
Size 8 ft. 3 in. x 10 ft. 6 in..**$16.45** Size 9 x 12 ft.....**$19.4**
Size 10 ft. 6 in. x 12 ft.....**$26.75**

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339.

No. 23-A-24. Kurdstan Axminster Rugs. Exceptional bargains at these prices.
Size 6 x 9 ft.....**$11.20** Size 9 x 12 ft.....**$21.00**
Size 8 ft. 3 in. x 10 ft. 6 in..**17.50** Size 10 ft. 6 in. x 13 ft. 6 in. **28.30**
Size 12 x 15 ft.....**$35.75**

Kurdstan Axminster Rugs

When ordering rugs, please state first, second and third choice; give preference as to colors and design We have expert pickers who will follow out your ideas exactly as carefully as you would personally select.

No. 23-A-25. Kurdstan Axminster Rugs. Heavy quality; high grade.
Size 6 x 9 ft.....**$11.20** Size 9 x 12 ft.....**$21.0**
Size 8 ft. 3 in. x 10 ft. 6 in..**17.50** Size 10 ft. 6 in. x 13 ft. 6 in. **28.3**
Size 12 x 15 ft.....**$35.75**

FOR COMPLETE INFORMATION AS TO SIZES AND QUALITY OF THESE RUGS SEE PAGE 338.

Kermanshah Royal Wilton Rugs

For further information as to sizes and prices of the various rugs listed on this page, refer to page 338.

No. 23-A-26. Kermanshah Royal Wilton Rugs.

Size 6 x 9 ft. $17.50
Size 8 ft. 3 in. x 10 ft. 6 in. .. 25.00
Size 9 x 12 ft. $27.50
Size 10 ft. 6 in. x 12 ft. 36.00
Size 10 ft. 6 in. x 13 ft. 6 in. $40.75

No. 23-A-27. Kashan Royal Worsted Wilton Rugs.

Size 6 x 9 ft. $19.25
Size 8 ft. 3 in. x 10 ft. 6 in. .. 29.50
Size 9 x 12 ft. $31.50
Size 10 ft. 6 in. x 12 ft. 41.50
Size 10 ft. 6 in. x 14 ft. $46.50

Kashan Royal Worsted Wilton Rugs and Herat Body Brussels Rugs

We can also furnish rugs in Lot No. 23-A-28 in neat small patterns in various shades of tans, reds and greens at the above prices. Refer to page 338 for further information as to sizes and prices

No. 23-A-28. Herat Body Brussels Rugs. Good quality.

Size 8 ft. 3 in. x 10 ft. 6 in. $20.00
Size 9 x 12 ft. 21.75

No. 23-A-29 Kermanshah Royal Wilton Rugs.

Size 6 x 9 ft. $17.50
Size 8 ft. 3 in. x 10 ft. 6 in. .. 25.00
Size 9 x 12 ft. $27.50
Size 10 ft. 6 in. x 12 ft. 36.00
Size 10 ft. 6 in. x 13 ft. 6 in. $40.75

REFER TO PAGES 338 AND 339 FOR FURTHER INFORMATION AS TO SIZES AND PRICES

ANATOLIAN SMYRNA RUGS.

No. 23-A-30. Anatolian Smyrna Rugs. Both sides exactly alike.
Size 30 x 60 in. **$0.75**
Patterns 12 and 13, on page 323, can also be furnished in this size at the same price.

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339.

ANATOLIAN SMYRNA RUGS.

No. 23-A-31. Anatolian Smyrna Rugs. Both sides exactly alike.
Size 30 x 60 in. **$0.75**
Size 36 x 72 in. **1.65**
Patterns 12 and 13, on page 323, can also be furnished in these sizes at the same prices.

BELLOCHISTAN SMYRNA RUGS.

No. 23-A-32. Bellochistan Smyrna Rugs. Heavy quality all wool Smyrna rugs.
Size 26 x 54 in. **$1.35**
Size 30 x 60 in. **1.65**
Size 36 x 72 in. **2.45**
Size 4 x 7 ft. **3.95**

Refer to pages 338 and 339 for further description of the rugs in this colortype section.

BELLOCHISTAN SMYRNA RUGS.

No. 23-A-33. Bellochistan Smyrna Rugs. Heavy quality all wool Smyrna rugs.
Size 26 x 54 in. **$1.35**
Size 30 x 60 in. **1.65**
Size 36 x 72 in. **2.45**

SHIRAZ WILTON RUGS.

No. 23-A-34. Shiraz Wilton Rugs. Very close soft pile, choice colors and splendid wearing qualities.
Size 27 x 54 in. **$1.35**

Always give first, second and third choice as well as preference as to color and design. If you do not see exactly what you want illustrated, write us your requirements and we'll fill your order to satisfy your taste.

SHIRAZ WILTON RUGS.

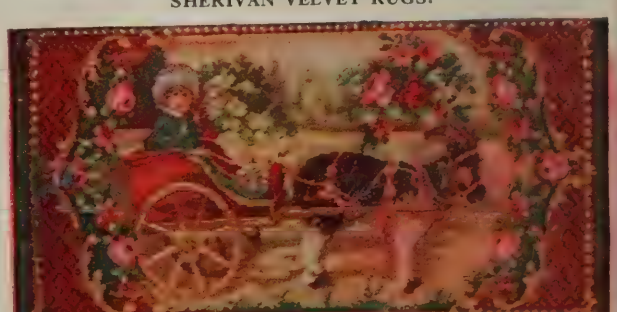
No. 23-A-35. Shiraz Wilton Rugs. Very close soft pile, choice colors and splendid wearing quality.
Size 27 x 54 in. **$1.35**

SHERIVAN VELVET RUGS.

No. 23-A-36. Sherivan Velvet Rugs. Extra heavy quality choice velvet rugs.
Size 27 x 54 in. **$1.25**

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339.

SHERIVAN VELVET RUGS.



No. 23-A-37. Sherivan Velvet Rugs. Extra heavy quality choice velvet rugs.
Size 27 x 54 in. **$1.25**

DAGHESTAN AXMINSTER RUGS.

No. 23-A-38. Daghestan Axminster Rugs. Very heavy quality, pattern and coloring exactly as shown and illustrated.

Size 27 x 60 in. $1.95
Size 36 x 72 in. 3.45

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339.

DAGHESTAN AXMINSTER RUGS.

No. 23-A-39. Daghestan Axminster Rugs. Very heavy quality, pattern and coloring exactly as shown and illustrated.

Size 27 x 60 in. $1.95
Size 36 x 72 in. 3.45

CASHMERE AXMINSTER RUGS.

No. 23-A-40. Cashmere Axminster Rugs. Very desirable Oriental patterns in the exact shades shown above. These rugs can also be furnished in several other designs and colorings in either Oriental or floral effects.

Size 27 x 54 in. $1.75
Size 36 x 63 in. 2.95

We guarantee our prices to be the lowest and quality the highest.

CASHMERE AXMINSTER RUGS.

No. 23-A-41. Cashmere Axminster Rugs. Exactly as illustrated and shown above.

Size 27 x 54 in. $1.75
Size 36 x 63 in. 2.95

MECCA AXMINSTER RUGS.

No. 23-A-42. Mecca Axminster Rugs. This grade can be furnished in an endless variety of choice effects in reds, greens and tans, or exactly as illustration shows.

Size 27 x 60 in. $1.90
Size 36 x 72 in. 3.15

We undersell regular retail prices from 30 to 60 per cent.

MECCA AXMINSTER RUGS.

No. 23-A-43. Mecca Axminster Rugs. In choice Oriental designs, extra good quality. Can be furnished in a number of good Oriental patterns in green, red and tan grounds, or exactly like illustration shown.

Size 27 x 60 in. $1.90
Size 36 x 72 in. 3.15

CABRISTAN WILTON RUGS.

No. 23-A-44. Cabristan Wilton Rugs. The finest grade of worsted made. This quality can be furnished in a number of choice patterns and colorings or same can be selected to match large rugs.

Size 27 x 54 in. $2.95
Size 36 x 63 in. 4.85

For complete description of the various floor coverings illustrated in colors on this and the following pages, refer to pages 338 and 339.

CABRISTAN WILTON RUGS.

No. 23-A-45. Cabristan Wilton Rugs. The finest grade of worsted made. This quality can be furnished in a number of choice patterns and colorings or same can be selected to match large rugs.

Size 27 x 54 in. $2.95
Size 36 x 63 in. 4.85

Always give first, second and third choice, when ordering floor coverings of any kind. It facilitates shipment

No. 23-A-46. Our Brusseline Art Squares. The best appearing and the best wearing cheap rugs made. Colors strictly fast. Patterns very choice.

Size 6 x 9 ft	$1.65
Size 7 ½ x 9 ft	2.00
Size 9x 9 ft	2.50
Size 9 x 10 ½ ft	3.10
Size 9 x 12 ft	3.25

No. 23-A-47. Our Brusseline Art Squares. The best appearing and the best wearing cheap rugs made. Colors strictly fast. Patterns very choice.

Size 6 x 9 ft	$1.65
Size 7 ½ x 9 ft	2.00
Size 9 x 9 ft	2.50
Size 9 x 10 ½ ft	3.10
Size 9 x 12 ft	3.25

No. 23-A-48. Our Brusseline Art Squares. The best appearing and the best wearing cheap rugs made. Colors strictly fast. Patterns very choice.

Size 6 x 9 ft	$1.65
Size 7 ½ x 9 ft	2.00
Size 9 x 9 ft	2.50
Size 9 x 10 ½ ft	3.10
Size 9 x 12 ft	3.25

No. 23-A-51. Our extra heavy mixed wool and Fibre Squares; good colors and choice designs in either floral, Oriental or small all-over effects. These can also be supplied in a number of other colors besides those shown above.

Size 6 x 9 ft	$1.85
Size 7 ½ x 9 ft	2.25
Size 9 x 9 ft	2.80
Size 9 x 10 ½ ft	3.25
Size 9 x 12 ft	3.65

No. 23-A-49. Our extra heavy mixed wool and Fibre Squares; good colors and choice designs in either floral, Oriental or small all-over effects. These can also be supplied in a number of other colors besides those shown above.

Size 6 x 9 ft	$1.85
Size 7 ½ x 9 ft	2.25
Size 9 x 9 ft	2.80
Size 9 x 10 ½ ft	3.25
Size 9 x 12 ft	3.65

No. 23-A-50. Our extra heavy mixed wool Fibre Squares; good colors and choice designs in either floral, Oriental or small all-over effects. These can also be supplied in a number of other colors besides those shown above.

Size 6 x 9 ft	$1.85
Size 7 ½ x 9 ft	2.25
Size 9 x 9 ft	2.80
Size 9 x 10 ½ ft	3.25
Size 9 x 12 ft	3.65

No. 23-A-52. Our Excelsior wool-filled Art Squares. Extra good quality, fast colors and choice patterns.

Size 6 x 9 ft	$2.20
Size 7 ½ x 9 ft	2.95
Size 9 x 9 ft	3.45
Size 9 x 10 ½ ft	4.10
Size 9 x 12 ft	4.95
Size 12 x 12 ft	6.50
Size 12 x 15 ft	8.75

No. 23-A-53. Our Excelsior wool-filled Art Squares. Extra good quality, fast colors and choice patterns.

Size 6 x 9 ft	$2.20
Size 7 ½ x 9 ft	2.95
Size 9 x 9 ft	3.45
Size 9 x 10 ½ ft	4.10
Size 9 x 12 ft	4.95
Size 12 x 12 ft	6.50
Size 12 x 15 ft	8.75

No. 23-A-54. Our Excelsior wool-filled Art Squares. Extra good quality, fast colors and choice patterns.

Size 6 x 9 ft	$2.20
Size 7 ½ x 9 ft	2.95
Size 9 x 9 ft	3.45
Size 9 x 10 ½ ft	4.10
Size 9 x 12 ft	4.95
Size 12 x 12 ft	6.50
Size 12 x 15 ft	8.75

For complete description of the various Floor Coverings illustrated in colors on this and the following pages, refer to pages 338 and 3

Pattern No. 1.

Pattern No. 2.

Pattern No. 3.

No. 23-A-55. Our excelsior wool-filled Art Squares. Extra good quality, fast colors and exceptionally pretty patterns. Choice of Patterns Nos. 1, 2 or 3 at following prices, according to size:

Size 6 x 9 ft.	$2.20	Size 9 x 12 ft.	$4.95
Size 7½x 9 ft.	2.95	Size 12 x 12 ft.	6.50
Size 9 x 9 ft.	3.45	Size 12 x 15 ft.	8.75
Size 9 x 10½ ft.	4.10		

Pattern No. 4.

Pattern No. 5.

Pattern No. 6.

No. 23-A-56. Our standard best all-wool Art Squares. In addition to the above patterns, we can supply you with reds, dark greens, browns, tans and blues in patterns similar to any of those illustrated. Choice of patterns Nos. 4, 5 or 6 at the following low prices:

Size 6 x 9 ft.	$3.25	Size 9 x 12 ft.	$6.50
Size 7½x 9 ft.	4.05	Size 12 x 12 ft.	9.25
Size 9 x 9 ft.	4.75	Size 12 x 15 ft.	11.25
Size 9 x 10½ ft.	5.60		

Pattern No. 7.

Pattern No. 8.

Pattern No. 9.

No. 23-A-57. Our standard best all-wool Art Squares. In addition to the above patterns we can supply you with reds, greens, browns, tans, and blues in patterns similar to any of those illustrated. Choice of Patterns Nos. 7, 8 or 9 at the following special low prices:

Size 6 x 9 ft.	$3.25	Size 9 x 12 ft.	$6.50
Size 7½x 9 ft.	4.05	Size 12 x 12 ft.	9.25
Size 9 x 9 ft.	4.75	Size 12 x 15 ft.	11.25
Size 9 x 10½ ft.	5.60	Pattern No. 8 is made 7 ft. 6 in. x 9 ft., 9 ft. x 10 ft. 6 in. and 9 x 12 ft.	

For complete description of the various Floor Coverings illustrated in colors on this and the following pages refer to pages 338 and 339.

Special Bargains in Ingrain Carpets

21c BUYS THIS PATTERN.

No. 23-A-58. Extra heavy granite Ingrain Carpet; fast colors, reversible, good wearing quality, 36 in. wide.
Price per yard.....**21c**

29c BUYS THIS PATTERN.

No. 23-A-59. Heavy wool-filled Union Carpet; 36 in. wide
Price per yard.....**29c**

29c BUYS THIS PATTERN.

No. 23-A-60. Heavy wool-filled Union Carpet; in a design exactly as shown above or in one similar to No. 23-A-61; 36 in. wide
Price per yard.....**29c**

37c BUYS THIS PATTERN.

No. 23-A-61. Heavy quality all-wool filled Ingrain Carpet; made on a heavy cotton warp, reversible; colors strictly fast; 36 in. wide.
Price per yard.....**37c**

37c BUYS THIS PATTERN.

No. 23-A-62. Heavy quality of all-wool filled Ingrain Carpet; made of a heavy cotton warp; perfectly reversible; colors strictly fast; 36 in. wide.
Price per yard.....**37c**

37c BUYS THIS PATTERN.

No. 23-A-63. Standard all-wool filled Ingrain Carpet; woven on a heavy cotton warp; perfectly reversible; fast colors; 36 in. wide.
Price per yard.....**37c**

52c BUYS THIS PATTERN.

No. 23-A-64. Best quality all-wool Ingrain Carpet; perfectly reversible. Samples of other patterns sent on application; 36 in. wide.
Price per yard.....**52c**

52c BUYS THIS PATTERN.

No. 23-A-65. Best quality all-wool Ingrain Carpet; reversible. We can supply a number of other designs, of which samples will be sent on request. 36 in. wide.
Price per yard.....**52c**

52c BUYS THIS PATTERN.

No. 23-A-66. Best quality all-wool Ingrain Carpet; perfectly reversible. In addition to patterns 69, 70 and 71, we can supply other designs; samples sent free on request. 36 in. wide.
Price per yard.....**52c**

Odd size, fine quality Brussels and Wilton Velvet rugs at wonderfully low prices.

For complete description of the various floor coverings illustrated in colors on this and the following pages refer to pages 338 and 339.

No. 23-A-67. This handsome design in a heavy quality of all-wool Brussels Rugs; perfectly matched and sized. Can also be furnished in a tan ground; also in an Oriental effect similar to our lot No. 23-A-95, at the following low prices:

Size 8 ft. 2 in. x 12 ft. 7 in.	**$14.00**
Size 9 ft. 1 in. x 13 ft.	**15.85**
Size 10 ft. 4 in. x 13 ft. 6 in.	**17.85**
Size 10 ft. 4 in. x 14 ft. 3 in.	**18.75**
Size 11 ft. 5 in. x 13 ft. 9 in.	**20.00**
Size 11 ft. 5 in. x 14 ft. 6 in.	**21.30**
Size 12 ft. 6 in. x 14 ft.	**21.97**
Size 12 ft. 6 in. x 15 ft. 3 in.	**24.00**

No. 23-A-68. Extra good quality of Wilton Velvet. Can be supplied in pattern shown above, or in the same design with a green ground or in a beautiful floral design similar to No. 23-A-94; also in a tan ground, floral effect, offered at less than cost of manufacture.

Size 8 ft. 2 in. x 12 ft. 7 in.	**$17.00**
Size 9 ft. 1 in. x 13 ft.	**19.00**
Size 10 ft. 4 in. x 13 ft. 6 in.	**21.85**
Size 10 ft. 4 in. x 14 ft. 3 in.	**23.10**
Size 11 ft. 5 in. x 13 ft. 9 in.	**24.36**
Size 11 ft. 5 in. x 14 ft. 6 in.	**26.00**
Size 12 ft. 6 in. x 14 ft.	**26.90**
Size 12 ft. 6 in. x 15 ft 3 in.	**29.40**

At 53c, 97c and 79c, We Offer These Choice Patterns in Brussels, Wilton and Velvet Stair Carpets!

No. 23-A-69. Fine heavy quality of wool Brussels Stair Carpet, exactly as shown above in illustration. Same can also be supplied in a tan ground. 27 in. Stair Carpet.

Price per yard.....**53c**

No. 23-A-69½. Hall Carpet to match above, without bordered edges; 27 in. wide

Price per yard.....**53c**

No. 23-A-70. Extra heavy quality Standard Wilton Velvet; Persian pattern, suitable for hall runners, strips, etc. 27 in. wide.

Price per yard.....**97c**

No. 23-A-70½. Hall Carpet to match above, without bordered edges. 27 in. wide.

Price per yard.....**97c**

No. 23-A-71. Good quality of Wilton Velvet Hall and Stair Carpet; in addition to the colors shown above, we can furnish this beautiful design in either red or tan ground. We can also supply similar pattern in two-tone effect. This is an extra heavy quality of Wilton Velvet and is guaranteed to give service. 27 in. stair Carpet

Price per yard.....**79c**

No. 23-A-71½. 27 in. Hall Carpet to match above.

Price per yard.....**79c**

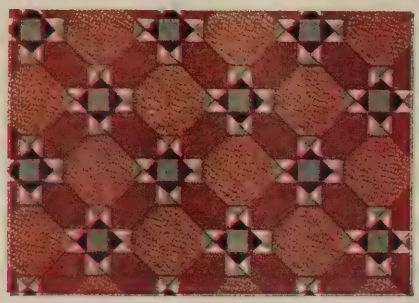
For a selection of other patterns, send for free samples, mentioning quality and colors desired.

No. 23-A-72. Heavy quality Printed Linoleum, neat tile pattern, 2 in. blocks, 6 ft. wide.
Price per square yard.....**42c**

No. 23-A-73. Heavy quality of Printed Linoleum; medium sized patterns; bright cheerful colors.
Price per square yard.....**38c**

No. 23-A-74. Heavy quality of Printed Linoleum; dark tile patterns; heavy weight; two yards wide.
Price per square yard.....**38c**

No. 23-A-75. Extra heavy grade of Printed Linoleum; wood floor effect; made 6 ft. wide only.
Price per square yard.....**42c**



No. 23-A-76. Choice tile pattern; extra quality of Printed Linoleum; made 6 ft. wide only.
Price per square yard.....**42c**

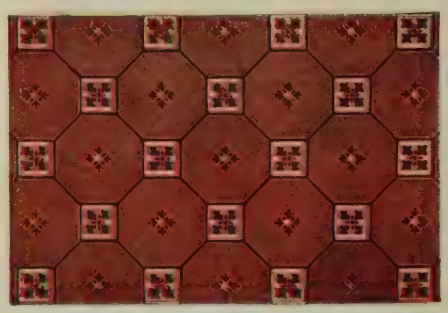
No. 23-A-77. Extra heavy quality of Printed Linoleum; pattern especially suited for kitchen, dining room, etc.; medium size pattern, made 6 ft. wide only.
Price per square yard.....**42c**

No. 23-A-78. Heavy quality of Printed Linoleum; medium size pattern; made 6 ft. wide only.
Price per square yard.....**45c**

No. 23-A-79. Extra heavy quality of Printed Linoleum; handsome light combination floral design; made 6 ft. wide only.
Price per square yard **45c**

No. 23-A-80. Extra heavy quality of Printed Linoleum; very choice design; medium colors; made 6 ft. wide only.
Price per square yard.....**45c**

No. 23-A-81. Heaviest quality of Printed Linoleum; most desirable pattern; made either two or four yards wide.
6 ft. widths, per square yard.....**46c**
12 ft. widths, per square yard.....**55c**



No. 23-A-82. Best quality Printed Linoleum; neat tile pattern; made 6 ft. wide only.
Price per square yard.....**46c**

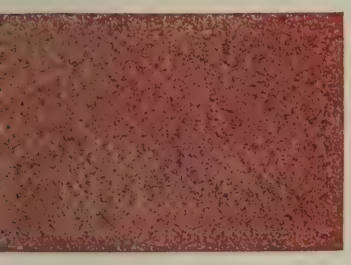
No. 23-A-83. Heaviest quality of Printed Linoleum; made in a medium sized scroll pattern; made 6 ft. wide only.
Price per square yard **46c**

FOR FURTHER DESCRIPTION SEE PAGE 338.

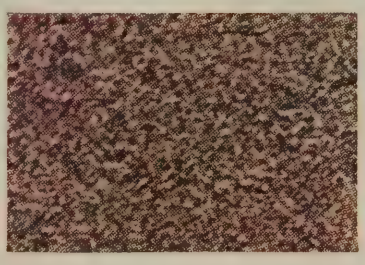
No. 23-A-84. Heaviest quality Printed Linoleum; imitation wood plank floor design; two or four yards wide.
Price for two yard widths, per square yard....**47c**
Price for four yard widths, per square yard....**57c**

No. 23-A-85. Best quality Printed Linoleum; tile pattern; 1¼ in. blocks; two yards wide.
Price per square yard.....**47c**

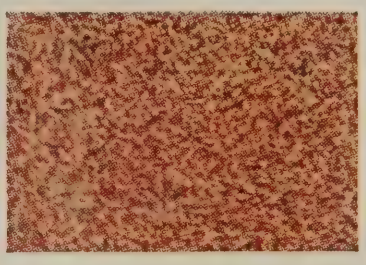
No. 23-A-86. Best quality Printed Linoleum, tile pattern; bright colors; two or four yards wide.
Price for two yard widths, per square yard....**47c**
Price for four yard widths, per square yard....**57c**



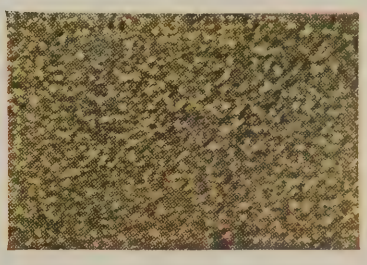
No. 23-A-87. Best grade imported genuine Inlaid Mottled Linoleum; colors go clear through to back; 6 ft. wide only.
Price per square yard.....**63c**



No. 23-A-88. Best grade imported Inlaid Mottled Linoleum; colors go clear through; 6 ft. wide only.
Price per square yard.....**63c**

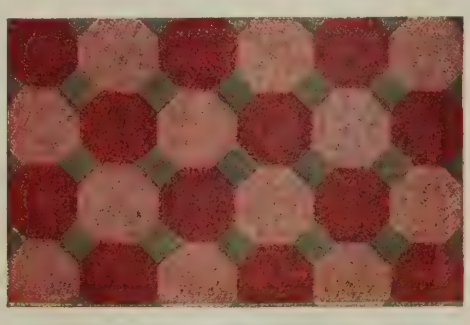


No. 23-A-89. Best grade imported Inlaid Mottled Linoleum, colors go clear through; 6 ft. wide only.
Price per square yard.....**63c**



No. 23-A-90. Best grade imported Inlaid Mottled Linoleum; colors go clear through; 6 ft. wide only.
Price per square yard.....**63c**

No. 23-A-91. Heavy quality of Inlaid Linoleum; 6 ft. wide only.
Price per square yard.....**69c**
No. 23-A-92. Same pattern as above in red and brown.
Price per square yard.....**69c**
No. 23-A-93. Same pattern as above in blue and brown.
Price per square yard.....**69c**



No. 23-A-94. Heavy quality of Inlaid Tile Linoleum; made 6 ft. wide only.
Price per square yard.....**79c**

The prices quoted on this page are all **per square yard.** When ordering, be sure to give the exact dimensions of your room.

No. 23-A-95. Heavy quality of blue and white Tile Linoleum; made 6 ft. wide.
Price per square yard.....**93c**

Send us your plans for free estimates and suggestions as to cutting linoleum to the best advantage for your purpose.

No. 23-A-96. Heaviest quality of Inlaid Linoleum; made 6 ft. wide only.
Price per square yard.....**97c**

The Inlaid Linoleums quoted on this page are all made of a special "tile-like" composition, each color going clear through to the back, thus insuring long wear without defacing the pattern.

No. 23-A-97. Best quality of Inlaid Tile Linoleum; 6 ft. wide only.
Price per square yard.....**97c**
No. 23-A-98. Same pattern as above with a red design where illustration shows green.
Price per square yard.....**97c**
No. 23-A-99. Same pattern as above with blue design where illustration shows green.
Price per square yard.....**97c**

No. 23-A-100. Heavy quality of Inlaid Linoleum; neat tile pattern; made 6 ft. wide only.
Price per square yard.....**93c**

These linoleums are brand new and perfect, and will be cut to fit without extra charge, when requested.

If you cannot make a selection in the colors shown above, write for samples showing other qualities and colors that can be furnished.

No. 23-A-101.
$1.95 per pair. For size and other colors, see opposite page.

No. 23-A-102.

No. 23-A-103.
$2.75 and **$4.75** per pair. For other colors and size, see opposite page.

No. 23-A-104.
$4.50 per pair. For complete description and size, see opposite page.

No. 23-A-105.
$2.95 per pair. See opposite page for full description, size, colors, etc,

No. 23-A-108.
$1.60 each, for these heavy Bagdad Couch Covers. For complete description, see opposite page.

No. 23-A-106.
$2.00 each, for these heavy Oriental Couch Covers. For complete description, see opposite page.

No. 23-A-107.
$3.50 per pair. For size, description, etc., see opposite page.

Description of Portieres

ILLUSTRATED ON OPPOSITE PAGE.

$1.95

Per Pair.

No. 23-A-101. These heavy tapestry Portieres are 45 inches wide and three yards long. Perfectly reversible. Made with a heavy 6 inch fringe at the top and 2½ inch fringe at bottom. These portieres are a special heavy grade of tapestry and are worth double our price. This pattern can be supplied exactly as shown in our colored illustration on opposite page, or in a red ground with a green design; also green and brown. This is unquestionably the best bargain ever offered in a medium priced portiere. When ordering be sure and state colors wanted. These portieres must be seen to be fully appreciated.

Price, per pair.....$1.95

$2.75

Per Pair.

No. 23-A-102. These handsome bordered curtains are made of an extra good quality of tapestry and are the newest things for double doors. This is an exceptional bargain and can be furnished in colors of claret, emerald, or tobacco brown. Made with a tasty tapestry border 3 inches wide. These portieres are each 50 inches wide by 3 yards long. Remember we guarantee these curtains to give perfect satisfaction. When ordering be sure and state colors desired. We have sold hundreds of these curtains and they have in every instance satisfied the purchaser.

Price, per pair.....$2.75

$4.75

Per Pair.

No. 23-A-103. Positively one of the handsomest wide bordered portieres made. These beautiful curtains are made with a lasting silk finish in colors of red, myrtle-green, olive green and brown. They have a beautiful French tapestry border 6 inches deep; size, 50 inches by 3 yards each. **When ordering be sure and state colors wanted.**

Illustration on opposite page will give you an accurate idea of the exceptional beauty of this particular design.

Price, per pair.....$4.75

$4.50

Per Pair.

No. 23-A-104. $4.50 is the price of these handsome silk Art Nouveau portieres. They are perfectly reversible. Made with a beautiful band edge; each curtain is 50 inches wide by 3 yards long and finished with a tasty band edge. Comes in the exact coloring shown in our illustration on opposite page; also in a very soft two tone red. This is an exceptionally handsome curtain and is one of the best qualities made. In ordering, be sure and state colors wanted.

If you desire something exclusive and stylish, order portieres from this lot number.

Price, per pair.....$4.50

$2.95

Per Pair.

No. 20-A-105. These desirable solid-color portieres are made of a heavy quality of tapestry, 50 inches wide by 3 yards long; note the extra long fringe at the top, which is 9 inches deep. This is a wonderful bargain in a first-class heavy tapestry portiere. Come in colors of claret, myrtle green and brown. Both sides exactly alike. When ordering be sure and state colors wanted.

Price, per pair.....$2.95

$1.60

Each.

No. 23-A-108. This exceptionally heavy and beautiful oriental couch cover is exactly as shown in our illustration on opposite page. It measures 60 inches wide and 3 yards long. Handsomely fringed and perfectly finished. This is one of the best of our many bargains and we are sure it will prove entirely satisfactory in every way. We can also supply any number of other beautiful designs and colorings of the same quality. Price, each $1.60

No. 23-A-108½. Same pattern as above in a heavy quality of oriental striped portieres, 50 inches wide by 3 yards long. Fringe top and bottom.

Price, per pair.....$3.00

$2.00

Each.

No. 23-A-106. $2.00 is the price of this heavy reversible cashmere couch cover. It is 60 inches wide by 3 yards long. Heavily fringed on all sides. We consider this to be the choicest design and rarest coloring on the market. It will compare favorably with covers sold in the regular way at three times our price. We can also supply this quality in other colors and designs. Don't fail to order one of these couch covers. They're ideal for decorative purposes.

Price, each.....$2.00

$3.50

Per Pair.

No. 23-A-107. $3.50 per pair is the price of these heavy reversible Bagdad portieres 50 inches wide and 3 yards long. Finished with a heavy fringe top and bottom and an exact copy of the fine oriental Bagdad curtain. These are made of an exceptionally good quality of tapestry and are guaranteed to give perfect satisfaction in every way. This is the best value we have ever offered in this line and a trial order will convince you that our prices are the lowest to be had on these goods.

See opposite page and note beauty of design.

Price, per pair.....$3.50

Description of Colortype Section Floor Coverings

By Referring to Corresponding Lot Number on Page Specified at Top of Each Description Below You Can Instantly Refer to Illustration

No. 23-A-1 (Illustrated in colors on page 321.) This beautiful oriental effect Rug is a floor-covering suitable for almost any room where a medium priced rug is desired. Do not hesitate to order one of these high grade rugs, as we are sure it will please you. The colorings in the rug are exactly as shown in the colored illustration and same can be furnished you in any size quoted without delay. We wish to call your attention to the extra large size we quote in this rug, which is suitable for very large rooms.

Size	Price
8′3″x10′6″	$ 8.25
9′ x12′	10.15
11′3″x12′	13.25

No. 23-A-2. (Illustrated in colors on page 321.) The colorings and design in this rug are the most desirable that can be made in floral patterns. We can also supply similar rugs in lighter and darker colors if so desired, but would strongly advise the purchase of this beautiful design reproduced exactly in our colored illustration.

Size	Price
8′3″x10′6″	$ 8.25
9′ x12′	10.15

No. 23-A-3. (Illustrated in colors on page 321.) This design you will notice can be supplied in either a soft, rich green ground with a beautiful oriental pattern, or a red ground in a similar design. When ordering be careful to order by number. No. 3 is the green and No. 4 is the red color. Too much cannot be said of the beauty and value of this wonderful rug.

Size.	Price
8′3″x10′6″	$ 8.45
9′ x12′	10.35
11′3″x12′	13.60

No. 23-A-5. (Illustrated in colors on page 321.) This is a heavy durable quality of Brussels made in a very choice floral and scroll design. These are all fast colors and a rug that will certainly give you first class service. We strongly advise the purchase of this quality for rooms where a strong, medium priced rug is wanted.

Size	Price
8′3″x10′6″	$ 8.45
9′ x12′	10.35
11′3″x12′	13.60

No. 23-A-6. (Illustrated in colors on page 322.) This beautiful design is one of the very desirable small Persian patterns in soft browns, green and tan and is especially suited for dining rooms, living rooms, etc., and such places where small patterns are appropriate. We can also supply several similar designs in soft colorings such as light tans, greens and reds in the same quality and at the same prices.

Size		Price
6′ x 9′	one seam.	$ 6.35
8′3″x10′6″	one seam.	10.70
9′ x12′	one seam.	12.70
10′6″x12′	one seam.	15.25

No. 23-A-7. (Illustrated in colors on page 322.) This beautiful medium tan ground, with green, pink, olive and red makes the best combination for a floral design.

Size	Price
11′3″x12′	$16.25
9′ x12′	12.70
8′3″x10′6″	10.70
6′ x 9′	6.35

No. 23-A-8. (Illustrated in colors on page 322.) These are the finest rugs made in the Brussels fabric and will give many years of hard service. The colorings and designs are the same as those made in the finest domestic rugs. We can also supply a number of small covered patterns in this quality at the same prices. If you order a small pattern state color you want. We guarantee absolute satisfaction.

Size	Price
11′3″x12′	$21.25
9′ x12′	16.25

No. 23-A-9.—(Illustrated in colors on page 322.) This is absolutely the best quality of full 10 wire Brussels made. This is a very handsome design and is suitable for almost any room and it will satisfy the most exacting tastes.

Size	Price
11′3″x12′	$21.25
9′ x12′	16.25
8′3″x10′6″	14.50
6′ x 9′	8.50

No. 23-A-10. (Illustrated in colors on page 323.) $14.55 buys one of these fine velvet rugs, size 9′x 12′. This is a good quality of velvet made in either coloring as shown in illustration. When ordering be sure and order by number. No. 9 is the green; No. 10½ is the tan.
Size, 9′x12′. Price. $14.55

No. 23-A-11. (Illustrated in colors on page 323.) $14.55 buys this beautiful Meshed velvet rug. This is a beautiful tan creation, which is very suitable for general parlor use; all fast colors and a good reliable rug in every way. Give us your order for one of these fine rugs and you will not be disappointed. We can also supply darker colors in reds, and greens similar to this design.
Size, 9′x12′. Price. $14.55

No. 23-A-12. (Illustrated in colors on page 323.) $3.65 buys this heavy Khorasan reversible Smyrna rug, size 6′x9′. These are without any exception the best cheap rug made, considering the fact that both sides are alike and each side can be worn a long time.

Size	Price
6′ x 9′	$3.65
7′6″x10′6″	5.25
9′ x12′	7.25

No. 23-A-13.—(Illustrated in colors on page 323.) This is a very handsome oriental pattern, all soft colors and we are sure this rug will harmonize with most any room. These are perfectly reversible and will make a very satisfactory rug in every way.

Size	Price
6′ x 9′	$3.65
7′6″x10′6″	5.25
9′ x12′	7.25

No. 23-A-14. (Illustrated in colors on page 324.) This rug can be supplied without delay in exactly the same coloring and design as shown in the illustration. The materials used in the construction of this rug are all the finest qualities of wool yarns and the dyes are absolutely fast. This beautiful rug is worth double our price in the regular retail way. Give us your order for one of these beautiful rugs and we will guarantee perfect satisfaction.

Size	Price
10′6″x12′	$19.85
9′ x12′	15.75

No. 23-A-15. (Illustrated in colors on page 324.) $19.85 buys this 10′6″x12′ extra large size Royal Iram Wilton Velvet rug; this rug is also made in size, 9′x12′. Price. $15.75

This beautiful empire design makes one of the handsomest rugs that money can buy. Do not hesitate to place your order for one of these fine, high class, low priced Wilton Velvet rugs.

Size	Price
9′ x12′	$15.75
10′6″x12′	19.85

No. 23-A-16. (Illustrated in colors on page 324). $15.75 buys this heavy 9′x12′ Royal Ispaham Wilton Velvet rug; also made, size 10′6″x12′. $19.85

This and various other beautiful floral designs in dark reds, rich greens, etc., can be supplied in these sizes and prices. This is the best bargain ever offered on rugs of this high grade and we will guarantee perfect satisfaction in every case.

Size	Price
10′6″x12′	$19.85
9′ x12′	15.75

No. 23-A-17. (Illustrated in colors on page 324.) $15.75 for this beautiful oriental pattern 9′x12′ Royal Ispaham Wilton Velvet Rug. This pattern is especially suited for parlors, living rooms, etc., where oriental designing is required. Too much cannot be said of the quality and beauty of this rug.
Size, 9′x12′. Price. $15.75

No. 23-A-18. (Illustrated in colors on page 325.)
Size, 9′x12′. Price. $19.75

This neat and up-to-date seamless Wilton Velvet rug is the best of our many bargains. This quality can be furnished in a number of other designs similar to the one shown in our illustration, in reds, greens, browns, etc. They are worth double our price.
Size, 9′x12′. Price. $19.75

No. 23-A-19. (Illustrated in colors on page 325.) $19.75 for this beautiful seamless Wilton Velvet rug size 9′x12′; also size 8′3″x10′6″. $17.25

This is an exact reproduction of a very fine oriental rug made of a heavy quality Wilton velvet without seams.

Size	Price
9′ x12′	$19.75
8′3″x10′6″	17.25

No. 23-A-20. (Illustrated in colors on page 325.) $21.00 for this heavy Mahal seamless Wilton velvet rug size 9′x12′; also size 8′3″x10′6″. $18.25

You will make no mistake in ordering one of these heavy seamless Wilton velvet rugs in this desirable pattern. Colors are all fast and serviceable and is a class of designing and coloring that will harmonize with almost any surroundings.

Size	Price
9′ x12′	$21.00
8′3″x10′6″	18.25

No. 23-A-21. (Illustrated in colors on page 325.) $21.00 for this seamless Mahal Wilton Velvet rug, size 12′x9′.

This rug is a copy of a fine oriental carpet and makes a very cheerful bright room. Colors are all serviceable and will harmonize with general surroundings very readily. The wearing qualities of this rug are exceptional and we will guarantee satisfaction in every respect on these seamless Wilton Velvet rugs.
Size 9′x12′. Price. $21.00

No. 23-A-22. (Illustrated in colors on page 326.) $16.45 for this Sarouk Axminster Rug, size 8′3″x10′6″. This beautiful oriental pattern is one that can be used to advantage in almost any room. This is a heavy durable quality, all fast and desirable colors.

Size	Price
27″x63″	$ 1.95
36″x72″	3.25
8′ 3″x10′ 6″	16.45
9′ x12′	19.45

No. 23-A-23. (Illustrated in colors on page 326.) $16.45 for this Sarouk Axminister Rug, size 8′3″x10′6″.

Size	Price
9′ x12′	$19.45
10′6″x12′	26.75

This beautiful floral design makes a very desirable rug in every way for general use and we will guarantee satisfaction in every instance if same is ordered.

Size	Price
27″ x 54″	$ 1.95
36″ x 72″	3.25
8′ 3″x10′ 6″	16.45
9′ x12′	19.45
10′ 6″x12′	26.75

Nos. 23-A-24 and 23-A-25. (Illustrated in colors on page 326.) $28.30 for the heavy Kurdistan Axminister rugs in the size 10′6″x13′6″.

This is the finest grade of Axminster made and is especially desirable from the fact that it is made in extra large size. This is a very suitable rug for large parlors, etc., and will stand any amount of hard service.

Size	Price
6′ x 9′	$11.20
8′3″ x10′6″	17.50
9′ x12′	21.00
10′6″x13′6″	28.30
12′ x15′	35.75

No. 23-A-26. (Illustrated in colors on page 327.) $17.50 buys this Kermanshah Royal Wilton rug, size 6′x9′; also made in full line of sizes quoted below. One of the finest qualities of Wiltons made. Suitable for fine parlors, living rooms, etc. This is a rug that will give the best of service and it is made in the most beautiful colorings. We can also supply a number of other designs in small patterns; also in darker colors if so desired. Please state in your order the color desired and if we cannot fill same in a satisfactory manner we will write you describing our selections.

Size	Price
36″x 63″	$ 4.75
4′ 6″x 7′ 6″	10.00
6′ x 9′	17.50
8′ 3″x10′ 6″	25.00
9′ x12′	27.50
10′ 6″x12′	36.00
10′ 6″x13′ 6″	40.75

Description of Colortype Section Floor Coverings

By Referring to Corresponding Lot Number on Page Specified at Top of Each Description Below You Can Instantly Refer to Illustration

No. 23-A-27. (Illustrated in colors on page 327.) $19.25 for this Kashan Royal Worsted Wilton rug, size 6′x9′. These rugs are of the finest quality of worsted Wilton and are without exception the best wearing rugs made. In addition the colorings are all exact copies of oriental rugs and are soft and subdued and suitable for any high class furnishings. We can also supply this quality in a number of other choice designs in the darker shades, of greens, reds, tans and browns; also in small covered Persian patterns in any color combination desired. When ordering describe your surroundings and if you wish any other design than the one shown we will make you a careful selection and will guarantee satisfaction.

Size	Price
36″ x 63″	$ 4.85
4′ 6″x 7′ 6″	11.75
6′ x 9′	19.25
8′ 3″x10′ 6″	29.50
9′ x12′	31.50
10′ 6″x12′	41.50
10′ 6″x14′	46.50

No. 23-A-28. (Illustrated in colors on page 327.) $20.00 for our Herat first quality of body Brussels rugs size, 8′3″x10′6″; also made, size 9′x12′ $21.75

These exceptionally heavy quality Body Brussels rugs can be furnished in small covered Persian patterns in any combination of colors desired. These are all made in soft, high class colors. We can certainly please you in this quality if you will describe just what your needs are.

Size	Price
8′3″x10′6″	$20.00
9′ x12′	21.75

No. 23-A-29. (Illustrated in colors on page 327.) $17.50 Kermanshah Royal Wilton rug, size, 6′x9′; also made in full line of sizes quoted below. This is one of the finest qualities of Wiltons and is suitable for fine parlors, living rooms, etc. This is a rug that will give the best of service and is made in the most beautiful colorings. We can also supply a number of other designs in small patterns; also in darker colors if so desired. Please state in your order the color desired and if we cannot fill same in a satisfactory manner we will write you describing our selections:

Size	Price
36″ x 63″	$ 4.75
4′ 6″x 7′ 6″	10.00
6′ x9′	17.50
8′ 3″x10′ 6″	25.00
9′ x12′	27.50
10′ 6″x12′	36.00
10′ 6″x13′ 6″	40.75

No. 23-A-30. (Illustrated in colors on page 328.) $0.75 buys this heavy reversible Anatolian Smyrna rug. Both sides can be worn exactly the same. The design is one of the best animal patterns on the market.

Size 30″x60″. Price $0.75

No. 23-A-31. (Illustrated in colors on page 328.) $1.65 buys this heavy Anatolian reversible Smyrna rug, size 36″x72″, heavily fringed and finished in a first class manner; also size 30″x60″, price $0.75

No. 23-A-32. (Illustrated in colors on page 328.) $1.35 for this heavy Belouchistan Smyrna rug, size 27″x54″.

Size	Price
30″x 60″	$1.65
26″x 54″	1.35
36″x 72″	2.45
4′ x 7′	3.95

No. 23-A-33. (Illustrated in colors on page 328.) $1.35 for this heavy Belouchistan Smyrna rug, size 27″x54″.

Size	Price
30″x60″	$1.65
26″x54″	1.35
36″x72″	2.45

No. 23-A-34. (Illustrated in colors on page 328.) $1.35 for this beautiful Shiraz Wilton rug, size 27″x54″.

These rugs are of a fine quality and are made in very choice oriental and floral effects in any color you desire.
Size 27″x54″. Price $1.35

No. 23-A-35. (Illustrated in colors on page 328.) $1.35 for this beautiful Shariz Wilton rug, size 27″x54″

These rugs are of a fine quality and are made in very choice oriental and floral effects in any color you desire.
Size 27″x54″. Price $1.35

Nos. 23-A-36 and **No. 23-A-37.** (Illustrated in colors on page 328.)

$1.25 for this heavy Sherivan velvet rug, size 27″x54″.

In addition to the above designs and colors shown in our colored illustrations Nos. 35 and 36 we can furnish you with a number of other patterns in oriental, floral and animal effects.
Size 27″x54″. Price $1.25

Nos. 23-A-38 and **23-A-39.** (Illustrated in colors on page 329.)

$1.95 for this beautiful Daghestan velvet rug, size 27″x60″; also made, size 36″x72″ $3.45

We can also furnish a number of beautiful floral and oriental effects in these sizes and at same prices.

Size	Price
27″x60″	$1.95
36″x72″	3.45

Nos. 23-A-40 and **23-A-41.** (Illustrated in colors on page 329.)

$1.75 for this heavy quality Cashmere Axminster rug, size 27″x54″; also size 36″x63″ $2.95

These are of heavy choice qualities of Axminster and the patterns selected for our color section are the choicest of the land. We can, however, furnish you with several other colorings and designs similar to either No. 39 or No. 40 if you so desire, but we strongly advise the purchase of these beautiful patterns.

Size	Price
27″x54″	$1.75
36″x63″	2.95

Nos. 23-A-42 and **23-A-43.** (Illustrated in colors on page 329.)

$1.90 for our Mecca Axminster rug, 27″x60″; also, size 36″x72″. Price $3.15

These are an exceptional value at the low price we offer them and are guaranteed to give satisfaction in every way. If you desire any other colorings than those shown please give us an idea of just what you want and we can undoubtedly fill your order in a satisfactory manner. If ordering large rugs you want some small ones to match, select your quality and leave the selection of patterns and colors to us and we will most assuredly satisfy you.

Nos. 23-A-44 and **23-A-45.** (Illustrated in colors on page 329.)

$2.95 for this finest quality of Cabristan Wilton, size 27″x54″.

This is absolutely the finest grade of Wilton rug on the market. The quality and colorings will satisfy the most exacting customer. These rugs can be furnished in any coloring and any pattern. If the designs shown here do not exactly please you state your ideas as nearly as possible and we can undoubtedly fill your order in a satisfactory manner.

Size	Price
27″x54″	$2.95
36″x63″	4.85

For special larger sizes see Lot No. 23-A-26.

Nos. 23-A-46 23-A-47 and **23-A-48.** (Illustrated in colors on page 330.)

$1.65 for our heavy quality 6x9 ft. Brusseline fast color Art rugs; also made:

Size	Price
7½′x 9 ′	$2.00
9 ′x 9 ′	2.50
9 ′x10½′	3.10
9 ′x12 ′	3.25

These are exceptionally good value at the price we offer them and for an inexpensive rug makes the best wearing floor covering made. We have carefully selected these desirable patterns and we can also furnish several other colorings. If the designs shown do not please you state your preference as to color and we can undoubtedly fill your order in an entirely satisfactory manner.

Nos. 23-A-49, 23-A-50 and **23-A-51.** (Illustrated in colors on page 330.)

$1.85 for these heavy wool and fiber mixed reversible ingrain rugs, size 6x9 ft. Any of these choice patterns can be furnished in the following sizes:

Size	Price
7½′x 9 ′	$ 2.25
9′ x 9 ′	2.80
9 ′x10½′	2.25
9 ′x12½′	3.65

This is a good heavy quality of Art Square and one that will stand a lot of hard service. The colorings and designs are all desirable and the rugs are perfectly reversible. Give us your order for one of these handsome squares. We will guarantee saving you from 30 to 50%.

Nos. 23-A-52, 23-A-53, 23-A-54 and **23-A-55.** (Illustrated in colors on pages 330 and 331).

$2.20 for this all wool filled excelsior Art Square. These rugs are all perfectly reversible, fast colors and an extra heavy quality. From this choice line of patterns you can undoubtedly make a satisfactory selection. Also come in the following sizes:

Size	Price
7½′x 9 ′	$ 2.95
9 ′x 9 ′	3.45
9 ′x10½′	4.10
9 ′x12 ′	4.95
12 ′x12 ′	6.50
12 ′x15 ′	8.75

Nos. 23-A-56 and **23-A-57.** (Illustrated in colors on page 331.)

$3.25 for this heaviest all wool standard Art rug. These are made of the best wool yarns, fast colors and perfectly reversible. We can sell you these handsome rugs fully 30 to 50% below the regular prices. From these six beautiful patterns you can undoubtedly make a very satisfactory selection.

Size	Price
6 ′x 9 ′	$ 3.25
7½′x 9 ′	4.65
9 ′x 9 ′	4.75
9 ′x10½′	5.60
9 ′x12 ′	6.50
12 ′x12 ′	9.25
12 ′x15 ′	11.25

No. 23-A-58. (Illustrated in colors on page 332.) $0.21 per yard for this heavy Granite Ingrain Carpet full 36 inches wide, perfectly reversible, fast colors, exceptionally good wearing qualities, at the low price of 21c per yard. Where sewing is desired add 3c per yard. Be sure and allow 1½ yards extra for matching and if this amount is not required we will refund the difference to you.

No. 23-A-59. (Illustrated in colors on page 332.) $0.29 per yard for this heavy wool filled Union Carpet. This is a beautiful block design, suitable for any room, in cheerful colors. This is an extra heavy carpet and one that will stand long hard wear. In addition to the above pattern we can also supply several beautiful scroll and floral effects in reds, greens, tans, etc. If you want your carpet sewed add 3c per yard and allow 1½ yards for matching. If this amount is not required we will immediately refund the difference to you.

No. 23-A-60. (Illustrated in colors on page 332.) $0.29 per yard for this heavy wool filled Union Carpet. This beautiful Brussels design will make up a very desirable, handsome carpet. It is perfectly reversible and will stand any amount of good hard service. Full 36 inches wide. Price, per yard $0.29

Nos. 23-A-61, 23-A-62 and **23-A-63.** (Illustrated in colors on page 332.)

37c per yard for these beautiful carpets made of an extra heavy quality of all wool filled Ingrain Carpet, woven on a carpet warp. These carpets are all fast colors and perfectly reversible. They are worth in the regular way 65c to 70c per yard. Through a recent purchase of a large bankrupt stock we are able to supply these goods in three beautiful patterns shown at 37c per yard.

Nos. 23-A-64, 23-A-65 and **23-A-66.** (Illustrated in colors on page 332.)

$0.52 per yard for this best quality all wool Ingrain Carpet, made full 36 inches wide. These are the quality of Ingrain Carpet that will sell regularly up to 80c per yard. These goods are all perfect and desirable in every way. If you wish to have your carpet sewed allow 3c per yard for sewing and 1½ yards for matching. It this amount is not required we will immediately refund the difference to you. In addition to these desirable patterns we can also supply you a number of other beautiful designs, of which samples will be sent on request.

Extra Quality Reversible Smyrna Rugs

No. 23-A-116. This very artistic design in an extra heavy quality of reversible Smyrna rugs. These beautiful rugs are made in three desirable sizes, any of which we can supply without delay. This is a beautiful Oriental pattern, being a copy of a high priced hand made rug. The colors are a dark rich Oriental red ground with a center medallion and small patterns in green, gold and browns. The outer border is a combination of dark blue, gold and ivory. The fact that both sides can be worn makes them one of the most valuable rugs that you can buy.

Size 6x9'.....$3.45
Size 7'6"x10'6".....5.00
Size 9x12'.....7.20

No. 23-A-17. This handsome design in our special heavy quality of reversible Smyrna rug. There are no handsomer color combinations had in the highest price rugs made than we can furnish in this lot. The price we are asking for these rugs is about one-third their regular value. Send us your order for one of these handsome rugs and it will certainly please you. This beautiful design is made in a very choice Oriental pattern, with a soft claret ground, worked with mixed colors of tan, green, blue and brown, making a very desirable Oriental effect. Made in three useful sizes.

Size 6x9'.....$3.50
Size 7'6"x10'6".....5.10
Size 9x12'.....7.25

No. 23-A-18. This illustration will give you but a faint idea of the rare beauty of this wonderful design in our heavy reversible Smyrna rug. This is a very rich floral design, very suitable for parlors, etc. Made with a soft red ground and harmonizing shades of tan, green and pink. Made in three sizes.

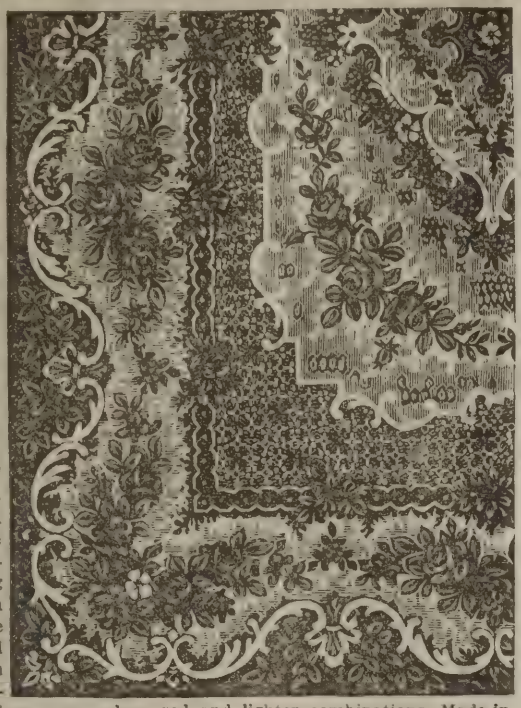
Size 6x9'.....$3.50
Size 7'6"x10'6".....5.10
Size 9x12'.....7.25

No. 23-A-19. Another of the beautiful Oriental designs in our heavy quality reversible Smyrna rugs. This is a beautiful Oriental reproduction in the handsomest color combination imaginable. It is also of heavy quality, which will give more service than any inexpensive rug manufactured. The coloring in this design is a very soft medium shade of empire green blended with the desirable shades of brown, rose, dark red and ivory.

Size 6x9'.....$3.45
Size 7'6"x10'6".....5.00
Size 9x12'.....7.25

GOOD QUALITY EXTRA HEAVY BRUSSELS RUGS

$9.25 Buys this 8 ft. 3 in. x 10 ft. Rug.



No. 23-A-179. High grade, heavy quality, Brussels Rugs. A large lot of these Rugs were secured by us at a recent prominent Eastern manufacturer's sale at an extraordinary low price. We are accordingly able to offer you a choice variety of patterns and colors at extremely low prices. The design shown in accompanying illustration is made with a handsome combination of rich colorings. It has a soft tan ground with the medallion and border coloring brought out in olive, empire green, ivory and pink. We can also furnish similar designs in deep green, deep red and lighter combinations. Made in three sizes only as designated below.

Size, 8 ft. 3 in. x 10 ft. 6 in. Price.....$ 9.25
Size, 12 ft. x 9 ft. Price..... 10.60
Size, 12 ft. x 11 ft. 3 in. Price..... 14.95

$10.60 Buys this 12x9 ft. Rug.

No. 23-A-181. Accompanying illustration will give you an idea as to the beauty of this handsome Brussels Rug. The design is distinctly Oriental and comes in a soft shade of tan ground with Oriental hieroglyphics, worked out in dark green, tan, red and brown. This is a particularly beautiful rug, the colors being exact reproductions of a fine Persian carpet. The quality of this rug being extra heavy, it will withstand a reasonable amount of hard service. If you want a good rug at an unusually low price buy one from this lot.

We also have a few Oriental patterns, slightly different from that shown herewith, which we can supply at the same price. They come in small covered Persian or medallion effects.

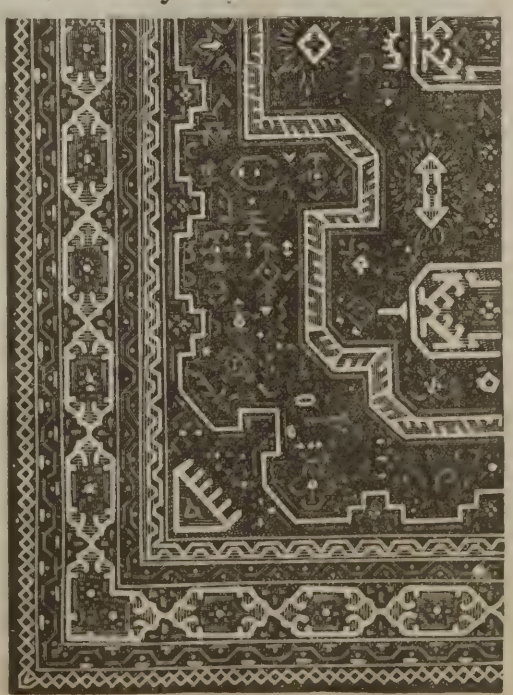
Size, 12 ft. x 9 ft. Price.....$10.60

$10.65 Buys this 12x9 ft. Rug.

No. 23-A-180. This stylish Brussels Rug is very suitable for dining room or bed room use. The design is very desirable, small Persian pattern. The color combination is a beautiful mixture of a tan and ivory ground with harmonizing tints brought out in soft olive, empire green and dark blue. The border colors harmonize perfectly with the general color scheme. If you want something choice in a good, serviceable floor-covering buy this rug. Can be furnished in three sizes as listed below.

Size, 10 ft. 6 in. x 8 ft. 3 in. Price.....$ 9.35
Size, 12 ft. x 9 ft. Price..... 10.65
Size, 12 ft. x 11 ft. 3 in. Price..... 15.10

$9.35 Buys this 10 ft. 6 in. x 8 ft. 3 in. Rug.



No. 23-A-182. Choice cashmere design in a heavy quality of wool Brussels Rug. An exact copy of a fine hand made Cashmere Rug. The colors are all fast and although bright there is nothing flashy about this rug. The ground work is a rich, soft, oriental red, beautifully covered with small figures in deep shades of green, ivory, tan and blue surrounded by a beautiful rich border in the same colors.

Order by number, giving preference as to colors desired.

Size, 10 ft. 6 in. x 8 ft. 3 in. Price.....$ 9.35
Size, 12 ft. x 9 ft. Price..... 10.65
Size, 12 ft. x 11 ft 3 in. Price..... 15.10

When Ordering Rugs Give FULL Lot Number and State Preference as to Colors.

FINEST QUALITY ALL-WOOL BRUSSELS RUGS

$12.50 Buys this Rug in the 9x12 ft. size.

No. 23-A-168. We guarantee the all-wool Brussels Rugs offered under this lot number, to be absolutely the best of their respective quality made. The colors are very desirable and are such as are found only in high grade floor coverings. If you want a moderate priced rug and do not wish to purchase a Wilton or Axminster, we advise the purchase of a rug of this kind. The color combination consists of a rich mottled olive green and brown with the center medallion brought out in lighter shades of green, ivory, gold and pink. The border design is brought out in contrasting shades of a lighter green, rose, pink and brown. We offer these Rugs at about half their actual value.

Notice these prices.

Size, 12 ft. x 9 ft. Price.....**$12.50**
Size, 12 ft. x 11 ft. 3 in. Price..... **17.10**

We have sold hundreds of these rugs and they have in every instance given perfect satisfaction.

$6.50 Buys this Rug in the 6 ft. 9 in. x 9 ft. size.

No. 23-A-169. Choice Cashmere Oriental effect. A distinctly first-class rug in every way. The rich manner in which the colors blend and the artistic design is sure to please the most exacting purchaser. These rugs come in rich shades of wood brown, tan, olive green and soft greens. Note that these rugs are made in extra large sizes, the largest size being a very desirable floor covering for large rooms. These rugs are regular factory woven but not the kind with mitered seams in borders. Can also be supplied in any of the sizes designated below in small covered Persian patterns as well as larger medallions and floral effects. Please be sure and give explicit instructions as to the design and colors you prefer. Give first, second and third choice.

Size, 6 ft. 9 in. x 9 ft. Price.....**$ 6.50**
Size, 10 ft. 6 in. x 8 ft. 3 in. Price..... **10.55**
Size, 12 ft. x 9 ft. Price..... **12.65**
Size, 12 ft. x 11 ft. 3 in. Price..... **16.75**

$10.55 Buys this Rug in 10 ft. 6 in. x 8 ft. 3 in. size.

No. 23-A-171. Beautiful floral and scroll effect, heavy, fast color all-wool Brussels Rug. A decidedly handsome pattern and a distinctly unique design. The colors are soft desirable browns and tan shades, neither too light nor dark, with a center medallion and border work brought out in ivory, olive and gold tints. When ordering, be sure and state preference as to color and design. If possible give first, second and third choice.

You can't obtain a more beautiful variety of rich colors in a moderate priced rug than is embodied in this particular quality.

Size, 10 ft. 6 in. x 8 ft. 3 in. Price.....**$10.55**
Size, 12 ft. x 9 ft. Price..... **12.65**
Size, 12 ft. x 11 ft. 3 in. Price..... **16.75**

$6.50 Buys this Rug in the 6 ft. 9 in. x 9 ft. size.

No. 23-A-170. Beautiful medallion, Oriental effect all-wool Brussels Rug. This design comes in a varied combination of colors, consisting of rich dark golden browns, ivory, green, red and blue; a rug that will harmonize with almost any surroundings, and a rug of high enough quality to withstand heavy wear. The colors are the best that can be had for general use. We also have a few similar designs in green, red and blue colors. State preference. This is a value positively beyond duplication elsewhere.

Size, 6 ft. 9 in. x 9 ft. Price.....**$ 6.50**
Size, 10 ft. 6 in. x 8 ft. 3 in. Price..... **10.55**
Size, 12 ft. x 9 ft. Price..... **12.65**
Size, 12 ft. x 11 ft. 3 in. Price..... **16.75**

Don't Overlook Our Linoleum Bargains. Our Prices Save You Money.

High Grade Wilton Velvet Rugs at *"Wrecking Prices."*

No. 23-A-194. Accompanying illustration shows one of the best parlor patterns we have in heaviest quality Wilton Velvet rugs. These rugs are matchless bargains in the strictest sense of the word. They are perfect, and the most desirable to be obtained as far as pattern and coloring are concerned. The colorings in these rugs consist of a rare combination of lighter shades of rich ivory in the ground work, blended with wood brown olive, green, pink, etc., contrasted by beautiful border in slightly darker shades. We also have a few similar designs in flora and scroll effects in dark red, green and pink colorings.

Notice Our Low Prices on this Rug.

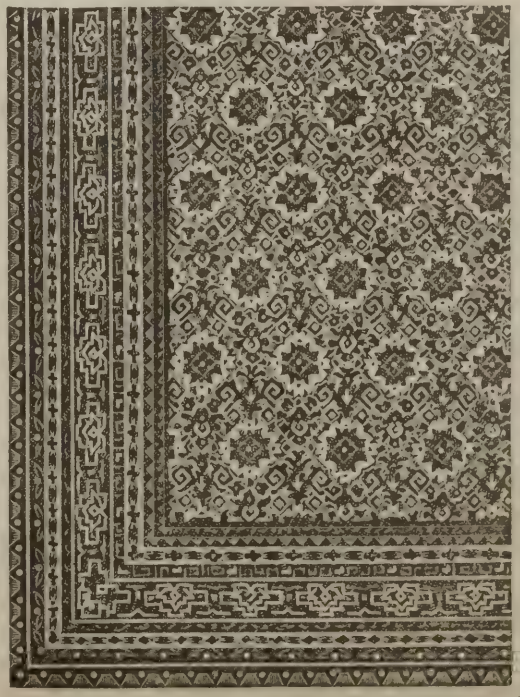
Size, 12 ft. x 9 ft. Price.....**$18.25**
Size, 12 ft. x 11 ft. 3 in. Price..... **25.50**

No. 23-A-195. The rugs classified under this lot number represent an extra fine quality of heavy Wilton Velvet, made in the exact copy of high priced oriental rugs, containing all the beautiful colors, such as dark rich reds, greens, blues and tans. This color combination is one of the handsomest ever designed, and we guarantee it to be a rug that will meet with the approval of the most fastidious. This rug would cost you $35 if you would buy it in a regular retail store. We also have a few of these rugs in greens, blues, tans and browns. When ordering, be sure and state preference and give us first, second and third choice.

Size, 12 ft. x 9 ft. Price.....**$18.25**

No. 23-A-197. Choice oriental design in an extra heavy quality of Wilton Velvet. This design is made in soft tans, browns, terra cotta, and ivory shades, making a very desirable medium light rug. We also have a few other patterns in darker colors of red, green and brown. Be sure and state preference as to colors when ordering. Please note that the low prices quoted on this rug do not in the least represent the actual value of it.

Size, 6 ft. 9 in. x 8 ft. 6 in. Price.....**$11.25**
Size, 12 ft. x 9 ft. Price..... **18.25**



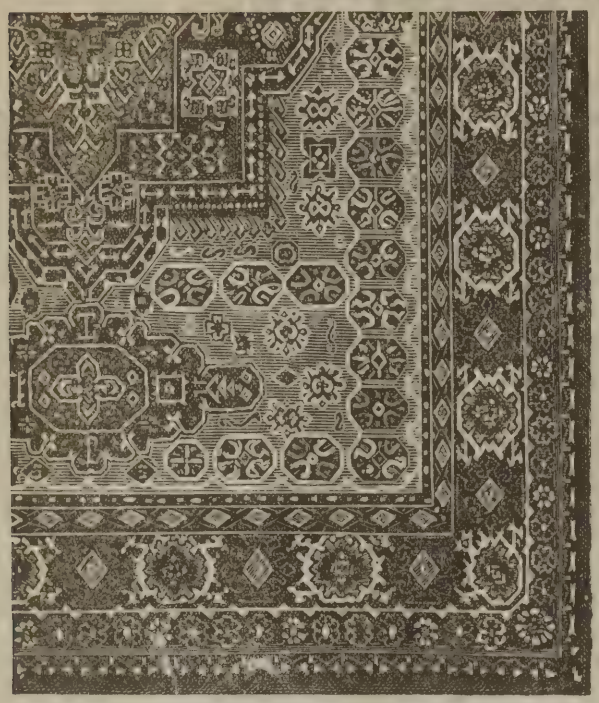
No. 23-A-196. A beautiful covered Persian effect Royal Wilton Velvet quality rug; extra heavy grade. A distinctly handsome design and an exclusive type. The small Persian effects found in this rug are very desirable. This rug has a beautiful tan ground with alternating small patterns in green, brown, blue and ivory. The border colors consist of darker shades of green, blue and brown. The contrasting shades show up this rug to the extent of its fullest beauty. We also have a small number of these rugs in similar designs, in red, green and brown colors, which we can supply instead of the rug illustrated and described herewith, if preferred.

Can You Beat These Prices:

Size, 8 ft. 6 in. x 6 ft. 9 in. Price.....**$11.25**
Size, 12 ft. x 9 ft. Price..... **18.25**

Why Not Have Your Neighbors Club with You when Ordering and Take Advantage of the Saving in Freight Charges.

SEAMLESS WILTON VELVET RUGS



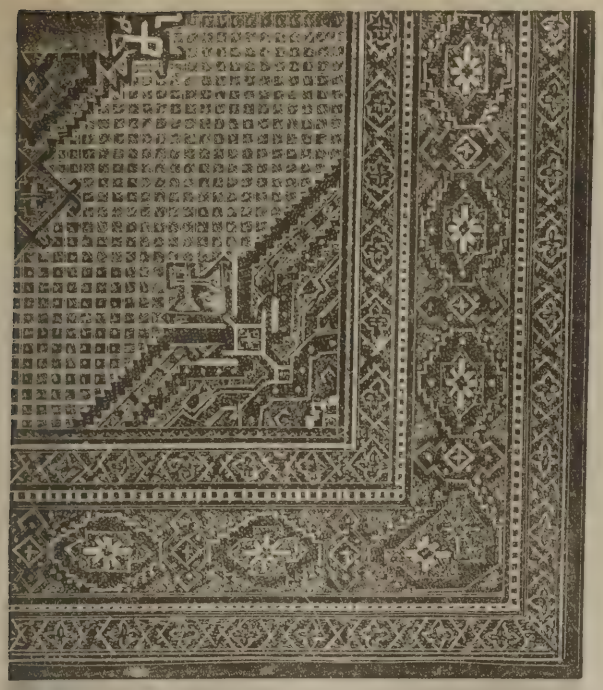
No. 23-A-160. This is an attractive high class seamless Wilton Velvet Rug made in an exact copy of a hand made Oriental carpet. The groundwork of this beautiful rug is a medium light shade of tan, with the medallion in contrasting colors of darker shades of Royal blue, empire green, ivory and red. The border is of a red, tan and green ground, with a design in ivory and lighter green, making a very handsome color combination. We can also furnish other choice designs and colors if this rug does not meet with your requirements. These rugs are all of the first grade of seamless velvets, and we are sure that any order placed with us for any of the rugs in this lot will prove entirely satisfactory to you.
Size, 9x12 ft. Price.....**$18.50**

No. 23-A-161. This is a beautiful seamless Wilton Velvet Rug of an extra heavy quality in a choice floral design. One of the most desirable patterns for parlor and general use that money can buy. The colorings in this beautiful rug consist of the much desired medium tan, cream and brown shades in the background, with a design of beautiful contrasting color combinations of green and pink. The border work is in perfect harmony with the center medallion, and we consider it one of the handsomest rugs made today in this quality of goods. We can also supply other designs of a similar character in darker red, green and brown shades. If you want a bargain, buy one of these rugs.
Size, 8 ft. 3 in. x 10 ft. 6 in. Price.....**$15.70**
Size, 9x12 ft. Price.....**18.50**
Size, 11 ft. 3 in. x 12 ft. Price.....**23.00**

No. 23-A-162. This heavy and handsome seamless Wilton Velvet Rug, in a combination design of Oriental and scroll effects, is made with a rich dark green ground, the center of the medallion being a rich olive green surrounded by a contrasting shade in two-tone red. The border colorings are beautiful harmonized tones of soft green, olive and ivory. Remember that this entire rug is made without seams and that it is of a quality which will withstand years of hard service.
Size, 9x12 ft. Price.....**$18.50**

No. 23-A-163. Extra heavy, high pile seamless Wilton Velvet Rug. Please note that this rug is made in an extra large size suitable for large living rooms, libraries, etc. The coloring in this rug is a combination of soft tans, browns and olive greens, making a very soothing, subdued effect. We can also furnish similar designs in darker green, red and brown colorings.
Size, 8 ft. 3 in. x 10 ft. 6 in. Price.....**$15.70**
Size, 9x12 ft. Price.....**18.50**
Size, 11 ft. 3 in. x 12 ft. Price.....**23.00**

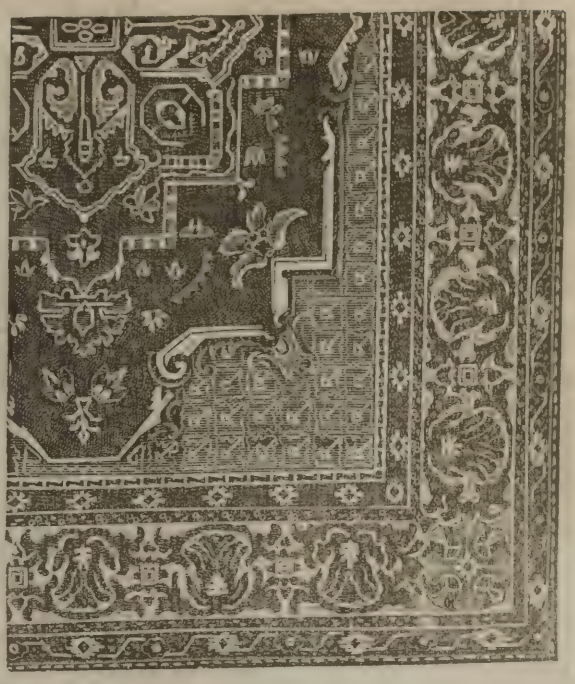
WE GUARANTEE ALL RUGS TO BE STRICTLY BRAND NEW AND PERFECT



No. 23-A-190. In this lot we quote a line of heavy Axminster rugs from a recent auction purchase. Either one of these rugs are worth fully double our price. They are all perfect in every way and are guaranteed to give good satisfaction. The design we show in this illustration is a very desirable pattern in the heavy Axminster weave. The colorings are a choice combination of terra cotta, ivory, green, blue and tan. The colorings are so blended that this rug will harmonize with almost any surroundings. Do not hesitate to order one of these handsome rugs as they are without doubt the greatest bargain ever offered in floor coverings of this quality.

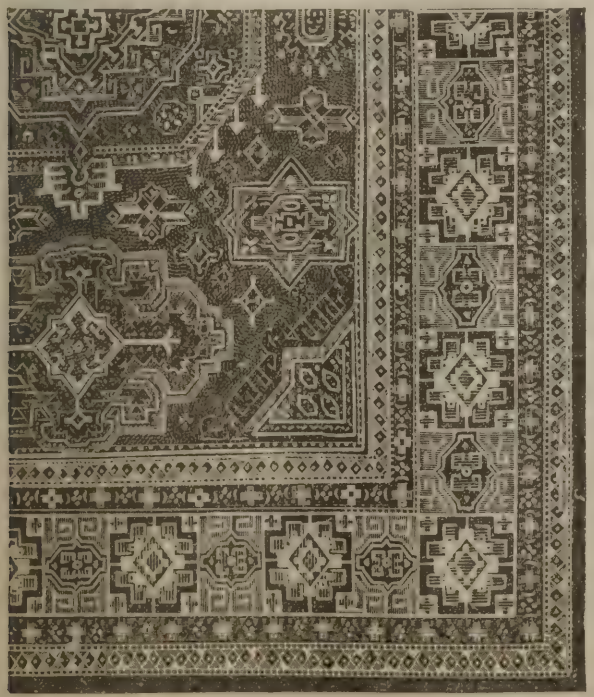
In addition to the colorings described above we can also furnish these beautiful rugs in a number of other designs and colors. These can be furnished in dark rich red and green grounds, also in the lighter tan and brown shades. Money refunded if not exactly as represented.

Size, 9 x 12 ft. Price.....**$18.35 each**



No. 23-A-191. This high pile, silky finish Axminster rug is one of the number of a special grade that we are able to offer you at a price lower than cost of manufacture. This design is one of the newest and most desirable floral effects to be had. The colorings consist of a soft medium shade of green, with a beautiful medallion design in tan, pink, gold and lighter green. The border colorings are also in tan, pink, green and gold, the whole making a very handsome combination and a design suitable for any parlor. Regarding the wearing qualities of this rug too much cannot be said as it is one of the heaviest grades manufactured by the mills this year.

Size, 9 x 12 ft. Price.....**$19.25 each**



No. 23-A-192. This is a beautiful serapi pattern in the heaviest quality of Axminster. It is an exact copy of one of the finest oriental rugs, and is made in a very desirable combination of colors embracing soft rose, dark blues, ivory and tan shades. These colorings are all beautifully blended, and if you are considering the purchase of a high class parlor or living room rug in these colors, we are sure you will make no mistake in ordering this one. The quality is first class and we guarantee perfect satisfaction as far as wear is concerned. It's a value but seldom offered out-of-town buyers.

Size, 9 x 12 ft. Price.....**$19.75 each**

No. 23-A-193. This is a beautiful oriental pattern in our high pile, silky finish Axminster rug. This beautiful fabric is a new and desirable weave made in the most beautiful colors ever produced in domestic goods. The ground work in this design is a beautiful, rich, soft green, with the medallion in oriental red, tan and brown, with border colors of soft olive green, tan, red and brown. In addition to these colorings we can supply you with the same class of designing in lighter rugs, with tan and brown grounds, and in darker rugs in reds and dark grounds. This is not the ordinary quality of Axminster, but is an extra heavy grade and has a beautiful soft silky finish. Order this rug today.

Size, 9 x 12 ft. Price.....**$20.50 each**

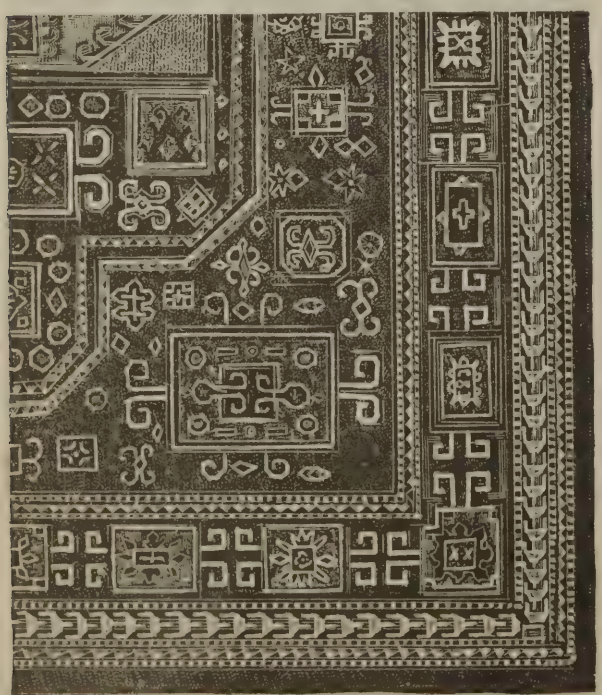
Helene Axminster Rugs

No. 23-A-270. Our special heavy Axminster rug. A choice Oriental pattern, in an exact copy of a fine imported rug, made in soft rose ground, with dark blue, green, ivory and tan tints perfectly blended into one of the most strikingly handsome color combinations ever designed. Size, 9x12 only. **Worth double.** Price..... **$18.75 each**

Standard Axminster Rugs

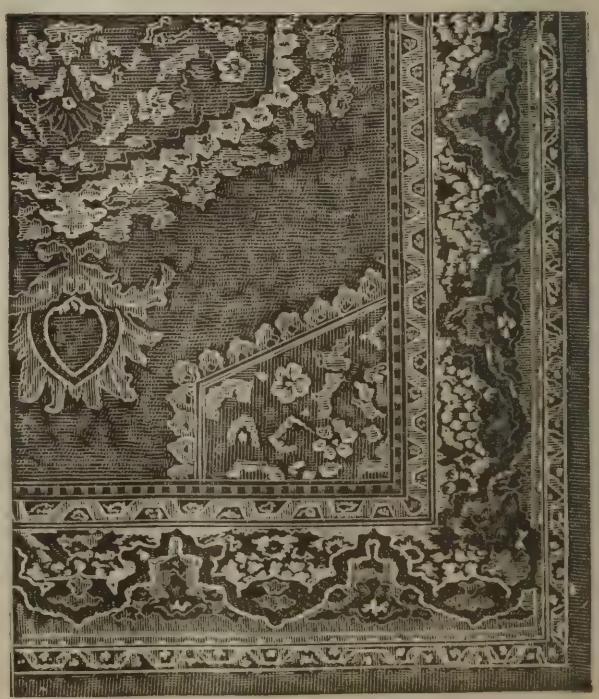
No. 23-A-271. Our **Standard** Axminster rug, size 9x12, made in two beautiful color combinations, one with a rich deep green ground, worked in the center with a medallion in tan, gold and rose, with the border colors of light tan, rose and brown. Also made in a very rich red ground with green, rose and brown in the medallion and the lighter tints of ivory, brown and pink in the border. When ordering, be sure and state which color is preferred. This is positively one of the finest grades of Axminster rugs made and is an exceptional bargain at the price of..... **$19.50 each**

Ashland Axminster Rugs



No. 23-A-272. Our extra heavy **Ashland** Axminster rug, size 9x12 only. This is an exact copy of a very choice Oriental rug, made with a beautiful medallion in center and a well covered Oriental design. The ground work of this rug is a very soft terra cotta shade. The colors blended with it are ivory, olive green, blue and tan. This makes a very soft subdued rich rug. It is an exceptional quality and is absolutely perfect in every way. Made size 9x12 only. Price..... **$20.50 each**

Emerald Axminster Rugs



No. 23-A-273. Our **Emerald** grade of best quality Axminster rug, size, 9x12, is an exact reproduction of a fine hand made camel's hair rug. The ground worked in the center of this rug is in the most desirable shade of soft tan and brown so much sought after. The middle and border colors are of beautiful Oriental combination of soft ivory, green and tan, the entire combination making one of the most strikingly beautiful rugs to be had. The quality of this rug is exceptionally good and is perfect in every way. Made in size 9x12 only. Price..... **$21.50 each**

Body Brussels Rugs

No. 23-A-164. The Rugs we list in this lot represent without exception the finest grade of body Brussels made. The design is an exact copy of a fine Kermanshah rug. The colorings consist of soft gray, blue, tan and rose shades; a very suitable rug for dining rooms, etc. We can also furnish this quality in a number of other designs, including the small covered Persian effects in any of the choicest color combination.

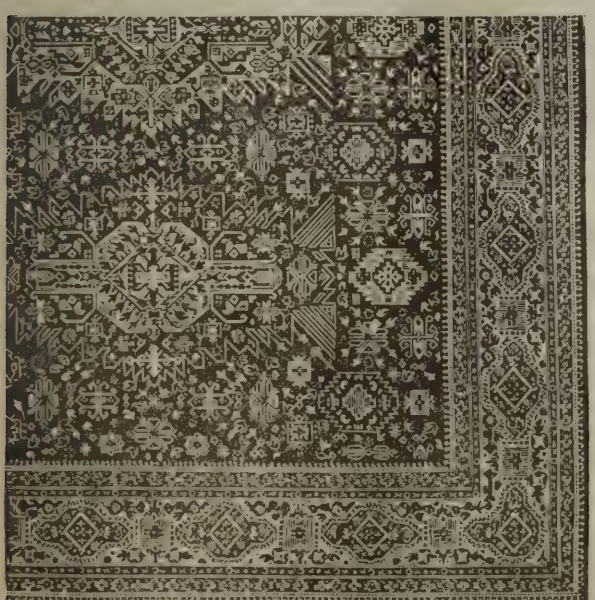
Size, 6x9 ft. Price.....$16.35
Size, 8 ft. 3 in. x 10 ft. 6 in. Price..... 20.00
Size, 9x12 ft. Price..... 21.75

Royal Wilton Rugs

No. 23-A-167. This beautiful Persian effect is a genuine Royal Wilton Rug and can be supplied to you without delay in either an Oriental red ground or a dark, rich emerald green. The center medallion and bordering colorings are a combination of old gold, dark blue, tan, red and green. In ordering be sure and state which coloring you prefer. This is an especially heavy quality of genuine Royal Wilton and is unquestionably one of the best rugs for hard service manufactured.

Size, 6x9 ft. Price.....$17.00
Size, 8 ft. 3 in. x 10 ft. 6 in. Price..... 24.00
Size, 9x12 ft. Price..... 27.00

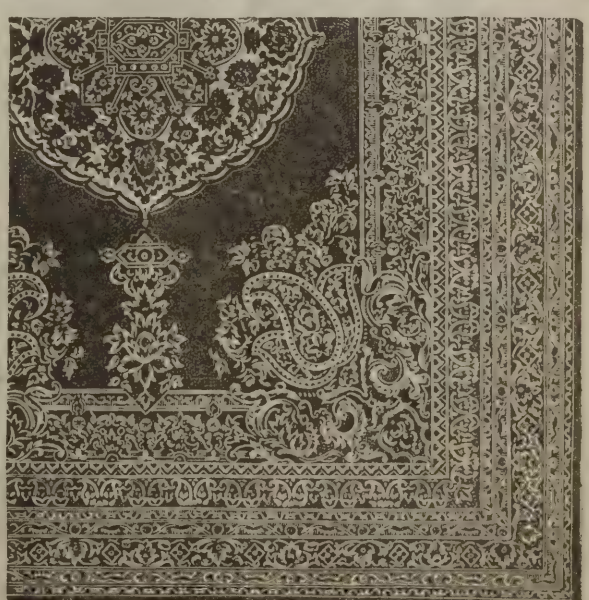
Royal Wilton Rugs



No. 23-A-165. In this lot we quote some of the finest quality Royal Wiltons on the market. This design is an exact copy of a fine hand made Cashmere rug, and is made in three beautiful colorings, one with a rich dark blue ground with the design and colorings of terra cotta, green and tan; the other with a rose ground with the design in colors of blue, tan, gold and light green; also with a light tan ground with the design in dark blue, gold and green. Made of the finest quality of Wilton manufactured. In addition to the pattern described here we can furnish hundreds of choice patterns in various colorings in other medallions or covered effects. This is a bargain you seldom see catalogued.

Size, 6x9 ft. Price.....$17.25
Size, 8 ft. 3 in. x 10 ft. 6 in. Price..... 24.25
Size, 9x12 ft. Price..... 27.25

Worsted Royal Wilton Rugs



No. 23-A-166. This illustration represents one of many patterns that We can supply in the finest quality of worsted Royal Wilton Rugs. These rugs must not be confused with the ordinary qualities of Wilton Rugs. The goods are all finished with a soft silky luster and run in the choicest designs and colorings. The designs are all exact reproductions of fine hand made Oriental rugs. The colorings in the designs shown above are either red or green ground worked with a center and border colorings in contrasting colors of blue, green, tan and brown. Nothing better made in domestic rugs.

Size, 6x9 ft. Price.....$19.25
Size, 8 ft. 3 in. Price..... 29.50
Size, 9x12 ft. Price..... 31.50

PREMIER AXMINSTER RUGS

Prices $1.97 for the 27 x 63 inch size and $3.35 for the 36 x 72 inch size.

No. 23-A-176. This beautiful picture rug in a splendid heavy quality of Axminster. The colors are green, blue, brown and pink. This pattern is made in two desirable sizes. We can also furnish a number of other patterns in both Floral and Oriental effects in almost any colors you desire. These Axminster Rugs are worth double our price and we are sure they will give perfect satisfaction.
Size, 27 x 63 inches. Price.....$1.97 Size, 36 x 72 inches. Price.....$3.35

STANDARD AXMINSTER RUGS

Illustration shows one of the most popular picture designs in which this rug was manufactured It is a design which should be in every home where there are children.

No. 23-A-177. Another of our beautiful picture rugs. This is one of the most natural and life-like designs ever woven into a fabric of this kind. It is an extra heavy quality of Axminster made in two large sizes. The colorings are of very soft rich shade of green in the ground work with a design in light gray, blue, brown and tan. Border is very deep shade of rich red, which serves to bring out the rest of the colors very clearly. Also a number of other patterns in Floral and Oriental effect in any color you desire.
Size, 27 x 63 inches. Price.....$2.15 Size, 36 x 72 inches. Price.....$3.55

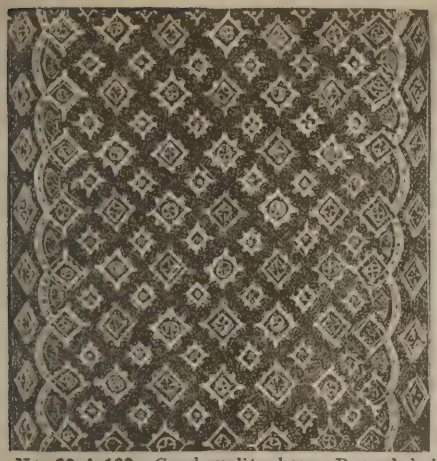
EXCELSIOR SMYRNA RUGS

Place your order for one of these rugs at once. The stock is limited and the low prices we quote will clean out the rugs rapidly.

No. 23-A-178 The above illustration represents one of our newest patterns in a heavy durable quality of all-wool Smyrna. These Smyrna Rugs were procured by us at a prominent manufacturer's sale. We are in a position to offer these rugs to you at less than the original cost of their manufacture. Give us your order for one of these beautiful rugs, stating whether you prefer the Oriental or Floral effects. We have them all and can surely suit you in design and colors. The accompanying illustration is beautifully colored in a rich red ground with a center floral design in pink, green and brown and the border in a very rich soft shade of green. These rugs are made in two sizes.
Size, 30 x 60 inches. Price.....$1.75 Size, 36 x 72 inches. Price.....$2.50

Business Men who are discriminating in taste will find our Office Furniture Section an interesting study.

Hall and Stair Carpets at Bargain Prices

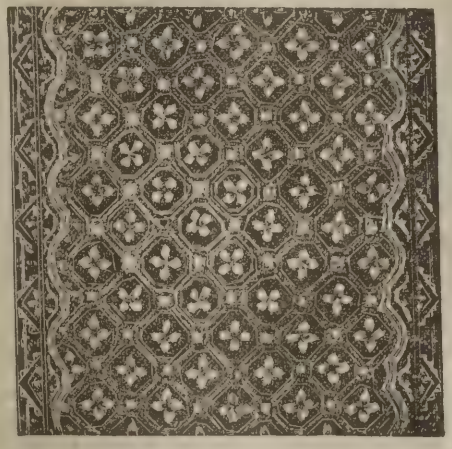


No. 23-A-183. Good quality, heavy Brussels hall and stair carpet; made in exact pattern shown above. Colors: red ground with green, black, brown and tan design; a very desirable pattern. Comes full 27 inches wide and can be furnished for either halls or stairs.
Price, per yard **$0.60**

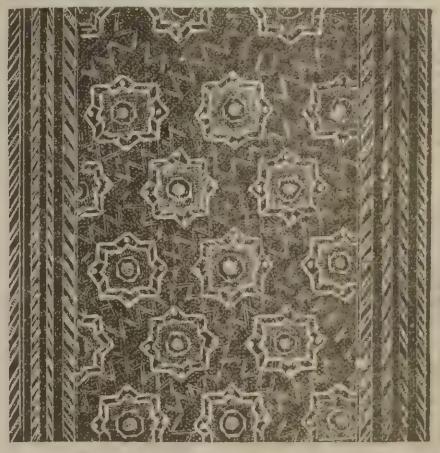
No. 23-A-184. This choice design in hall and stair carpet comes in a beautiful medium light shade of tan, blended with green, brown and red shades. This carpet can be furnished for either halls or stairs. Pattern is 27 inches wide.
Price, per yard **$0.60**

No. 23-A-185. This rich design comes in either two tone green or two tone red in heavy quality Brussels; full 27 inches wide; made for hall carpet, with stair to match if so desired. State when ordering whether green or red is wanted.
Price, per yard **$0.60**

No. 23-A-186. The best quality of Brussels hall and stair carpet. A beautiful Persian pattern in dark rich olive ground with design in brown and tan. This same carpet can be furnished in a rich red ground. Comes either in hall or stair carpet, 27 inches wide. The price quoted below does not represent its actual value.
Price, per yard..... **$0.72**



No. 23-A-187. This beatiful pattern in an extra quality of Wilton velvet hall or stair carpet can be supplied in either a rich two tone green ground with a small gold figure in the border, or in two tone red of same pattern, 27 inches wide. This pattern is an unusually rare one and you must see it to fully appreciate its beauty.
Price, per yard..... **$0.79**



No. 23-A-188. Heaviest grade standard Wilton velvet hall or stair carpet, full 27 inches wide, comes in either rich red ground with oriental pattern or blue, green and tan. We can also supply it with a green ground in tan, red and gold colors. This quality is one of the best grades that are made and is one that will stand any amount of hard service.
Price, per yard..... **$0.96**

"SUPERBA" SMYRNA RUGS.

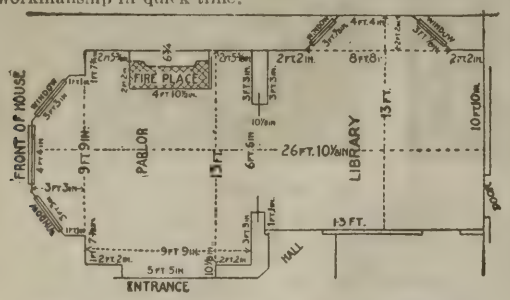
No. 23-A-189. This heavy all-wool reversible Smyrna Rug is made in exact design shown herewith, and also in hundreds of other handsome designs of either Floral or Oriental effects. This is an extra heavy grade of Smyrna and will wear for a great many years. We consider this one of the best bargains in our line. Give us your order for one of these rugs and we are sure you will be perfectly satisfied. The colorings consist of very soft rich tan ground surrounded by a beautiful border and with a medalion of green, red and brown, making it one of the handsomest combinations imaginable. These beautiful rugs come in two sizes as follows:

30 x 60 inches. Price..... **$1.75**
36 x 72 inches. Price..... **2.50**

SIMPLE INSTRUCTIONS TO CARPET BUYERS

WHEN ORDERING CARPETS

matched and sewed, be sure and get the actual size of room or rooms for which carpet is intended. In case it is an odd size, having a bay window, fireplace, grille work, etc., don't neglect to send a plainly marked diagram with exact measurements thereon. Also state where entrance of front room is, that we can intelligently fit your carpet according to your specifications. In order to show you how simple it is to make a diagram, we illustrate below one which a customer sent us some time ago; sketch shows parlor and library. We advise all customers ordering carpets from us to send a diagram plainly marked with all measurements. It will not only avoid any possibility of mistake occurring, but will enable us to turn out a faultless piece of workmanship in quick time.



OUR PRICES FOR SEWING AND MATCHING

are according to kind of carpet you order. As we are not a regular mail order concern, we have no department for sewing and matching carpets, but turn all such work over to a regular concern who does nothing but this class of work. The concern we turn this work over to has expensive machinery, thoroughly experienced, competent and skilled workmen, who have been doing this class of work all their lives and are thoroughly familiar with every detail of it. As they are specialists, they are able to turn out superior work much better than that of any concern having a similar department of their own. We charge **3 cents** per yard for sewing and matching Ingrain, Brussels or Velvet Carpet to fit any size room. **At 8 cents per yard,** we will cut and sew any Velvet, Axminster or Brussels Carpet where there is a border to match. Regular concerns charge 10 cents per yard for the latter class of work. We charge you only the actual cost of having this work done. We make no profit on the transaction whatever.

WASTAGE IN MATCHING CARPETS.

Whenever you order a carpet from us that you wish matched and sewed, you must make allowance for wastage in matching the patterns, etc. We ask to allow about 1½ yards wastage on each 25 yards of carpet ordered. Should the wastage be less we will refund you the difference as soon as made up.

Suppose you order a carpet from us for a room that covers 25 yards, you should pay for 26½ yards. Of course, on quantities less than 25 yards, the allowance of wastage would be proportionately less. If the pattern of the carpet you ordered is such that we can make it up in the size you designate, according to your diagram without any wastage, we will gladly refund you the difference. Whenever requested we gladly send the wastage in matching, with the carpet, so that we can verify our figures. The pieces that we send are frequently used as mats, coverings, etc.

Remember, Brussels, Axminsters, Velvets and Wilton Carpets measure 27 inches in width. Borders to match are 22½ inches wide. All Ingrain Carpets are 36 inches wide.

Remember, we guarantee absolute satisfaction. You run no risk whatsoever. Order any pattern or quality of carpet from us with the distinct understanding that it is the greatest value ever offered at the price. We sell millions of dollars worth of merchandise out of town yearly and cannot afford to give our customers anything but the very best bargains. You are always assured of honorable treatment when buying from us. Every description in this catalog represents cold facts.

WHEN ORDERING CARPETS

don't neglect to give us all possible information that you can, for quite frequently small details, perhaps unimportant from your view point, will enable us to give your order better attention and satisfaction.

If you don't see exactly what you want either in carpet or other articles illustrated and described in this catalog, don't hesitate to write us, stating your requirements. We might have just what you need in stock.

Write for our Bargain Circulars. They're mailed fully on request as issued from time to time. We are continually purchasing bankrupt stocks of all items, and the wise buyer will find it advantageous to keep posted on the bargains we are offering.

Keep in view the fact that all Furniture, Carpets and Rugs listed in this catalog are absolutely brand new and of perfect manufacture. We don't list an item that is in any way soiled or imperfect.

A PRACTICAL TABLE OF ROOM SIZES STATING THE NUMBER OF YARDS OF CARPET REQUIRED TO FIT AN ORDINARY SIZED ROOM

In case the exact size of your room does not appear in this list, simply allow enough money to pay for the next larger size. We will refund the difference. Give us the exact size of your room and we will cut, match and sew the carpet according to your instructions.

In case there is less wastage than what there is figured on, we will gladly refund you the difference. Don't neglect to allow 1½ yards of wastage for each 25 yards ordered. In studying the figures below please take into consideration the fact that Ingrain carpet is 36 inches wide. Brussels, Velvet and Wilton carpet 27 inches wide. The table below tells amount of carpet required with and without border. All borders measure 22½ inches in width.

Size of Room, Feet	Yards of Ingrain Carpet (36 inches wide) Required	Yards) of Brussels or Velvet (27 inches wide) Required	Yards of Brussels or Velvet, made with Border (including Border) Required	Size of Room, Feet	Yards of Ingrain Carpet (36 inches wide) Required	Yards of Brussels or Velvet (37 inches wide) Required	Yards of Brussels or Velvet, made with Border (including Border) Required
9x 9	9½	12¾	17¼	10x18	21½	28	34½
9x 9½	10	13½	18	11x11	15½	19½	24½
9x10	10½	14	18½	11x11½	15½	20¼	25½
9x10½	11	14¾	19¾	11x12	15½	21	26¼
9x11	11½	15½	20¼	11x12½	17½	21¾	27¾
9x11½	12	16	21	11x13	18	22¾	28¼
9x12	12½	16¾	21¾	11x13½	18¾	23½	29¼
9x12½	13	17½	22¾	11x14	19¾	24¾	30
9x13	13½	18	24	11x14½	20¼	25½	30¾
9x13½	14	18¾	25	11x15	21	26	32
9x14	14½	19½	26½	11x15½	21½	26¾	33
9x14½	15	20¼	26¾	11x16	22¼	27¾	33½
9x15	15½	21	27	11x16½	23	28½	34
9x15½	16	21¾	27¾	11x17	23¾	29¼	35⅝
9x16	16½	22¾	28½	11x17½	24¾	30¼	36½
9x16½	17	23	29¼	11x18	25	31	37½
9x17	17¾	23¾	30½	12x12	16¾	23½	28½
9x17½	18½	24¾	31	12x12½	17½	24	29½
9x18	18¾	25	31½	12x13	18¼	25	30½
10x10	12½	16	21	12x13½	18¾	26	31½
10x10½	13	16¾	21½	12x14	19½	27	32½
10x11	13½	17¾	22¼	12x14½	20¼	27¾	33½
10x11½	14¼	18½	23	12x15	21	28½	34½
10x12	14¾	19	24½	12x15½	21¾	29¾	35½
10x12½	15½	20	25	12x16	22¼	30½	36¾
10x13	16	20½	25¾	12x16½	23	31½	37¼
10x13½	16¾	21½	26½	12x17	23¾	32½	39
10x14	17¾	22	27¼	12x18	25¼	34½	40¾
10x14½	17¾	22¾	28½	13x13	20¼	27½	32
10x15	18½	23½	29	13x13½	21¼	28¾	33
10x15½	19¼	24½	30½	13x14	22	29½	34
10x16	20	25¼	31	13x14½	22¾	30½	35¼
10x16½	20½	26	32½	13x15	23½	31½	36½
10x17	21	26¾	33¼	13x15½	24¼	32½	37½

Don't neglect to verify the figures on your diagram before sending same to us. In case your room requires more than an equal number of strips, less than 13 inches in width, you should allow for half width of carpet. If more than 13 inches is needed, allow for full width of carpet, or 27 inches.

How to figure amount of carpet and border required to fit any size room. Suppose for instance you wished a carpet made up with border to match a room 10 ft. 6 in. in width and 10 ft. 6 in. in length, (see diagram), measure the distance around the room in yards, which will give you the exact number of yards of border required. Accordingly, you would need four times 10 ft. 6 in., or 42 ft. (14 yds.), of border. To ascertain the number of yards of carpet required, deduct the width of two strips of border, which is 45 inches, from 10 ft. 6 in., leaving 6 ft. 9 in. or 81 inches in all, divide by 27, which is the width in inches of one strip of carpet, which gives the number of strips required. In order to ascertain the length of strips, simply deduct the width of two strips of border, 45 inches in all, from length of room, which gives the length of strips, or 6 ft. 9 in., as it requires 3 strips of carpet. Multiply the 3 strips by 6 ft. 9 in., which would be 20 ft. 3 inches or 6¾ yards.

It's very simple to figure out the amount of carpet with border required to fit any size room. In order to show how we figure out yardage on diagram illustrated herewith, we give you an example of how to figure.

10 feet 6 inches
10 feet 6 inches
12 feet 6 inches
12 feet 6 inches

46 ft. border, 15⅓ yards.
10 ft. 6 in., width of room, by 12 ft. 6 in., length of room.
3 ft. 9 in., width 2 strips border, by 3 ft. 9 in., width 2 strips border.

6 ft. 9 in , width of body of carpet,
8 ft. 9 in., length of strips.
12 inches, 3, number of strips.

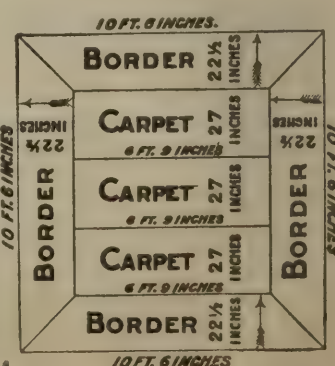
72 inches, 3—26 feet, 3 inches.

9 inches, 8¾ yards carpet.

27—81 in., width of body of carpet,
15½ yards, border.

3, number of strips of carpet required. 1½ yds, for matching.

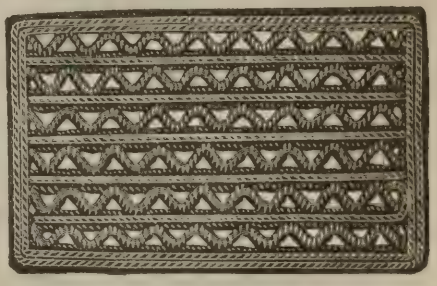
25 7-15 yds, border and carpet.



Rubber and Cocoa Matting at Bargain Prices

Cheapest Prices Ever Quoted on Door Mats

BUY NOW AND SAVE MONEY



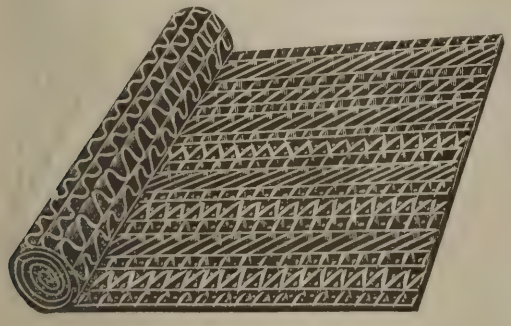
No. 23-A-227. Heavy quality, Cocoa Door Mats, can be supplied with plain white or red borders.

Size, 25x13 ins.	Price.....	$0.30	Size, 33x30 ins.	Price.....	$0.95
Size, 27x16 ins.	Price.....	.50	Size, 36x22 ins.	Price.....	1.35
Size, 30x18 ins.	Price.....	.75			

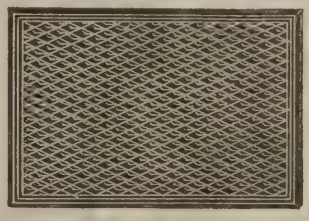
No. 23-A-228. Heaviest grade of Braided Rope Mats. These are made of extra heavy and durable fabric and will last a lifetime.

Size, 27x16 ins.	Price.....	$0.60	Size, 33x20 ins.	Price.....	$1.25
Size, 30x18 ins.	Price.....	.95	Size, 36x32 ins.	Price.....	1.50

FLEXIBLE STEEL DOOR MATS.

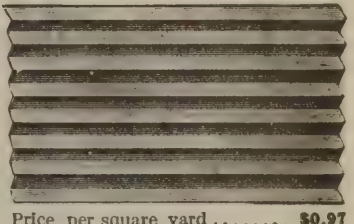


Get our special quotations for rubber stair treads; give dimensions and number needed and we will furnish you estimate.



No. 23-A-229. Heavy quality of Rubber Mats, size 18x30 ins. Made with the corrugation in a diamond pattern like cut, closed at the bottom so the dirt will not go through to the floor. Price, each $0.85

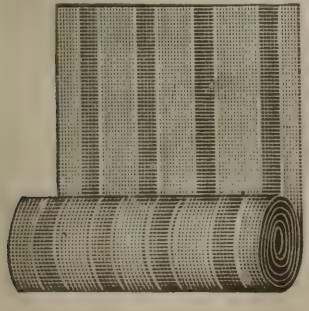
No. 23-A-230. Heavy quality, corrugated Rubber Matting. This Matting is made of a good quality of rubber, 36 ins. wide and can be cut in any length. These Mattings are used principally for church aisles, offices, public halls, etc., where a noiseless, long wearing, floor covering is needed. Weight, 6½ to 7 pounds per yard.



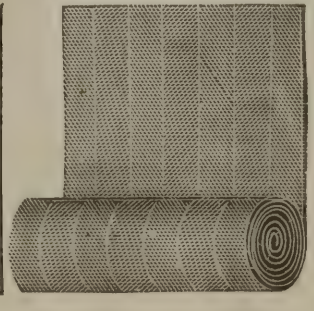
Price, per square yard $0.97

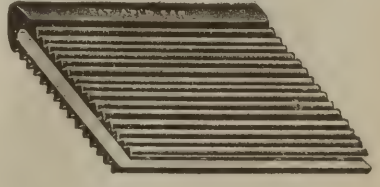
No. 23-A-231. Flexible Steel Door Mats, made of cold rolled steel, thoroughly galvanized and will not rust. These Mats when not in use can be rolled up and stored in a very small space.

Size, 16x24 ins.	Price.....$	0.84	Size, 22x36 ins.	Price.....	$1.50
Size, 18x30 ins.	Price.....	1.10	Size, 26x48 ins.	Price.....	2.15



Our prices on rugs are 30 to 50 per cent below the prevailing retail market prices.





No. 23-A-234. Heavy zinc ends, for Cocoa Mattings, riveted on to mattings.

Width, 18 ins.	Price.....	12c per end
Width, 27 ins.	Price.....	19c per end
Width, 36 ins.	Price.....	24c per end
Width, 45 ins.	Price.....	31c per end

No. 23-A-232. Our extra heavy reversible Cocoa Matting comes in widths from 18 to 54 ins. specially adapted for church aisles, etc., or any place where it is subject to hard wear.

Width 18 ins.....	21c per yard
Width 27 ins.....	29c per yard
Width 36 ins.....	42c per yard
Width 45 ins.....	55c per yard

No. 23-A-233. Finest grade of double twill Cocoa Matting made. Either plain white or in stripes or red and white. Be sure and state color wanted when ordering. This is without any exception the best grade of Cocoa Matting made and will wear for a great number of years.

Width, 18 ins.....	29c per yard
Width, 27 ins.....	40c per yard
Width, 36 ins.....	54c per yard
Width, 45 ins.....	68c per yard

No. 23-A-235. Zinc ends not riveted onto the Matting. The prices include rivets and burrs.

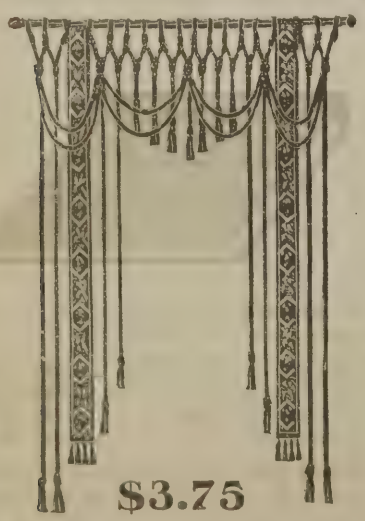
Width, 18 ins.	Price.....	9c each
Width, 27 ins.	Price.....	13c each
Width, 36 ins.	Price.....	18c each
Width, 45 ins	Price.....	25c each

Special Discount on Orders for 50 Yards or More.

ROPE PORTIERES, VALANCES, ETC.

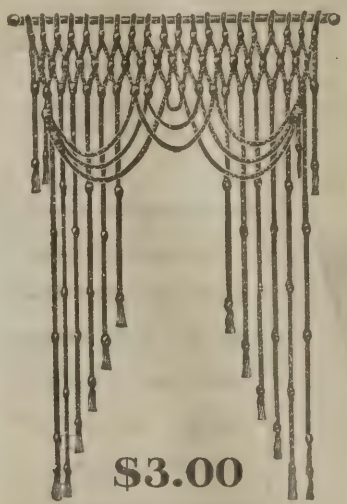
No. 23-A-236. This is a beautiful drapery Valance suitable for tops of doorways and windows; made of ½ inch plush cord, size 4 to 5 ft. wide, 30 inches deep. Colors, empire, green, red and green, two-tone green, green and rose. This Valance is beautifully draped and finished and is worth double our price.
Price, each.....**95c**

No. 23-A-239. This is a full sized double door Rope Portiere. It will extend fully 6 ft. wide by 7 ft. 6 in. long; made in a handsome combination ⅛ inch plush cord and ⅛ inch hard cord. Beautifully draped and festooned in one of the newest and most popular designs. Colors, empire green, olive, two-tone green, red and green, brown and olive.
Price, each.....**$2.75**

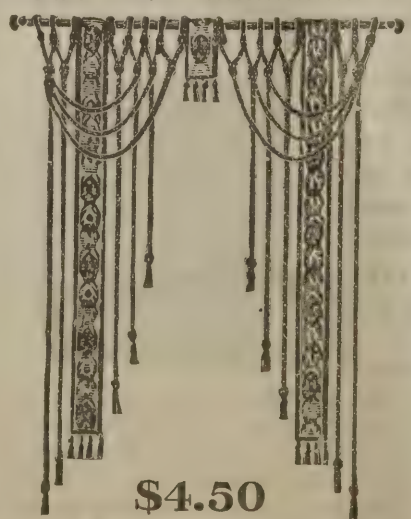


No. 23-A-242. This is the newest thing in one of the beautiful arts and crafts style of Rope and Band Portieres. This pattern is made in a double tapestry effect, with 4 inch bands combined with ⅛ inch plush cords for 6 ft. x 7 ft. 6 in. doors. Colors, olive, empire, myrtle and red.
Price, each.....**$3.75**

No. 23-A-237. This is a beautiful draped heavy cord Valance suitable for double doors or windows; made of a combination of ⅛ inch plush cord and ⅛ inch hard cord. Size 5 ft. to 6 ft. wide, 30 inches deep. Colors, empire, green, red and green, two-tone green, green and rose.
Price, each.....**$2.00**

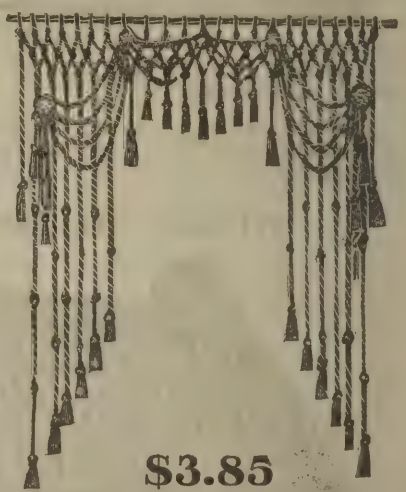


NO. 23-A-240. This beautiful ⅛ inch plush cord Rope Portiere is suitable for full sized double doors, 6 ft. to 7 ft wide, 7 ft. 6 in. long. Colors, empire, olive, two-tone green, red and green. A desirable Rope Drapery made to sell at not less than $5.00. Price, each.....**$3.00**

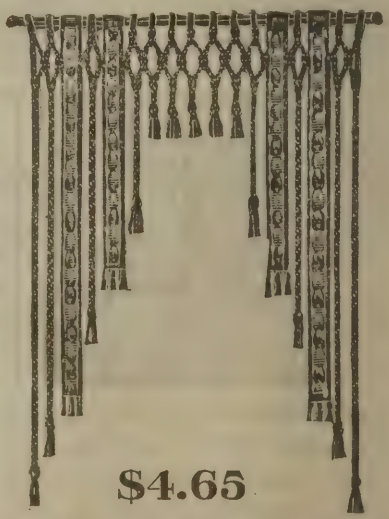


No. 23-A-243. For this beautiful Mission design in a 6 inch tapestry band and rope Portiere. There is nothing made in a drapery that will give a handsomer effect than this beautiful Portiere. The regular retail value of this piece is not less than $8.50. Colors, empire, myrtle, olive and red. Be sure to state color, when ordering.
Price, each.....**$4.50**

No. 23-A-238. Never before have we been able to offer such a wonderful value in a beautiful band finished Rope Valance. This is a new novelty effect, with a beautiful colored double tapestry band, made of ⅛ in. plush cord, 4 ft. to 6 ft. wide, 33 in. long. Colors, myrtle, empire, green, olive green and red. Be sure and state color you prefer, when ordering. Price, each.....**$2.75**



No. 23-A-241. This beautiful novelty Portiere is made of ⅛ in. plush cord and suitable for any parlor or room in your home. This makes a very rich massive drapery, 6 ft. to 7 ft. wide, 7 ft., 6 in. long. Colors, empire, olive, two-tone green, red and green, olive and brown, green and rose. Value $6.50.
Price **$3.85**

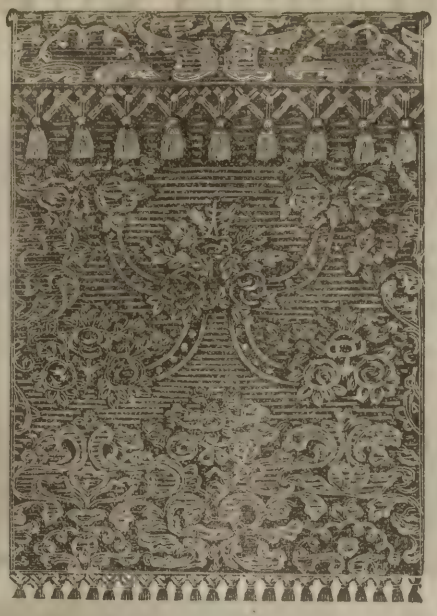


No. 23-A-244. For this beautiful combination of heavy tapestry bands and ⅛ in. plush cords. These beautiful curtains are all made in solid colors and are suitable for a 6 ft. doorway. They are beautifully draped and finished with four 4 in. tapestry bands and a heavy quantity of heavy ⅛ in. plush cord in the exact design shown in our illustration. Worth from $8.50 to $10 each. Colors, empire, myrtle, olive and red.
Price, each.....**$4.65**

TAPESTRY PORTIERES

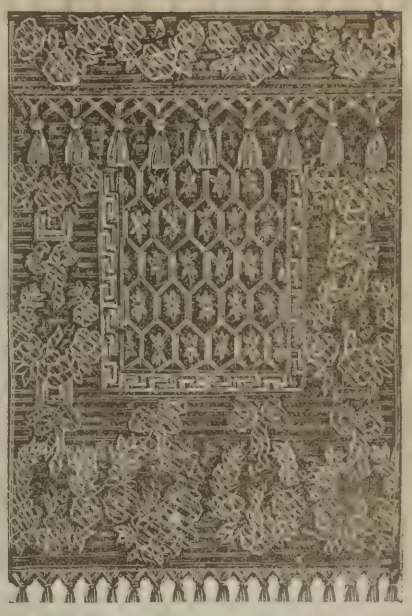
No. 23-A-245. We offer this beautiful curtain in an assortment of the latest colors, at a price we consider the lowest ever quoted on this class of merchandise. This is a good quality Tapestry Curtain made in a tasty design, and we are sure it will give perfect satisfaction. It is 31 inches wide and 3 yards long. Colors come in red and green, brown and green and two-tone green. Be sure and state color you prefer.

Price, per pair.....$1.25



No. 23-A-246. This up-to-date full sized Tapestry Portiere, is of a splendid quality, in colors that will match any decoration. These curtains are perfectly reversible and are the greatest bargains to be had. 42 inches wide, 3 yds. long. Colors, red and green, two-tone green, and brown and green. Be sure and state color you wish. Two of these curtains constitute a pair. We illustrate but one curtain.

Price, per pair.....$1.85



No. 23-A-247. Our extra heavy two-tone Empire Curtain. One of the choicest patterns and best styles on the market. This quality is A No. 1, and we assure you that this is the best bargain ever shown in the Portiere line. 48 inches wide, 3½ yds. long, made with an extra heavy fringe on both ends, comes in a rich dark shade of plain red, also in Empire green. When ordering be sure to state color wanted.

Price, per pair.....$2.10

No. 23-A-248. This beautiful Bagdad stripe in an extra heavy quality of tapestry, made full 50 inches wide and 3¼ yds. long, with a heavy fringe at both ends. This curtain is especially suited for libraries, dens, etc. It is made up in an Oriental design, and the colorings range in red, tan and green, making a very soft, handsome color combination. Price, per pair....$2.C5

No. 23-A-128½. Same design, in a 60x102 inch couch cover. Price.....$1.65

No. 23-A-249. These choice up-to-date heavy Tapestry Portieres are made full 50 inches wide by 3 yds. long. Handsome design in an Empire and Scroll combination, with a beautiful 10 inch heavy fringe at the top and a 3 inch fringe at the bottom. Come in a beautiful shade of two-tone green, red and green, and green and tan. When ordering be sure to state color wanted.

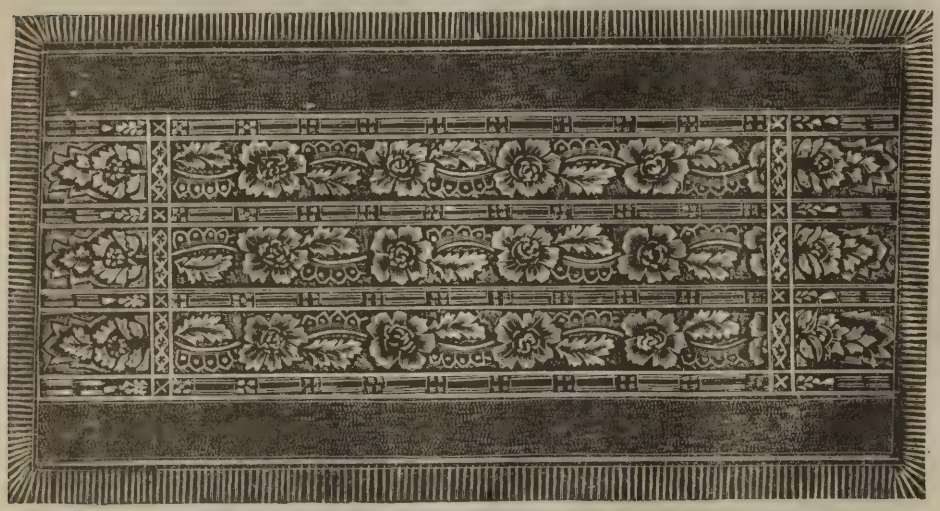
Price, per pair.....$2.90

No. 23-A-250. Our most desirable number in a brand new, up-to-date design in a beautiful silk finished Tapestry Portiere. This handsome curtain is made 50 inches wide and 2¾ yds. long, in a very choice Empire design. The bottom and edge of this curtain are finished with a very tasty silk braid, giving this the appearance of the very finest Damask curtains made. Comes in plain olive green, plain Empire green, plain red, and tobacco brown.

Price, per pair.....$4.00

ORIENTAL DESIGN COUCH COVERS

(REVERSIBLE)



Oriental Stripe Tapestry, $1.40

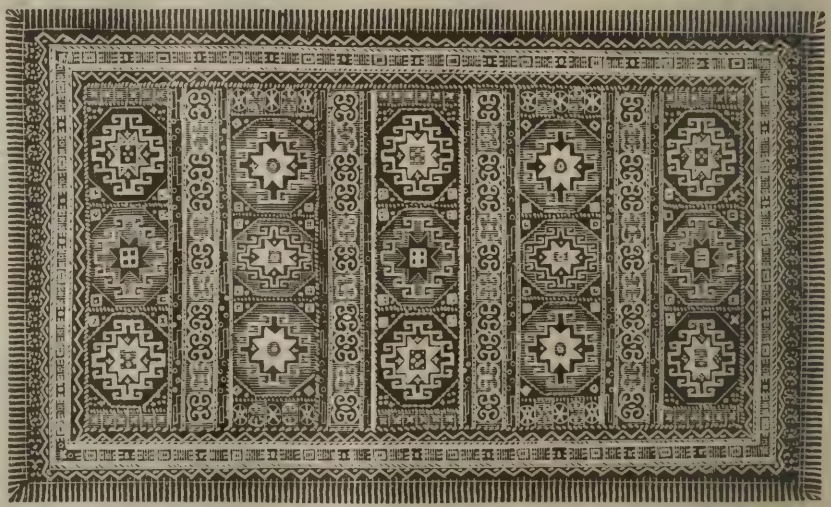
No. 23=A=172.

This magnificent reversible Oriental Stripe Tapestry Couch Cover, comes in a desirable combination of colors; made 60 inches wide and 3 yards long; fringed all around with a 4-inch fringe. Colors, red, green, blue and tan. Alike on both sides. Special bargain at ..... **$1.40 each**

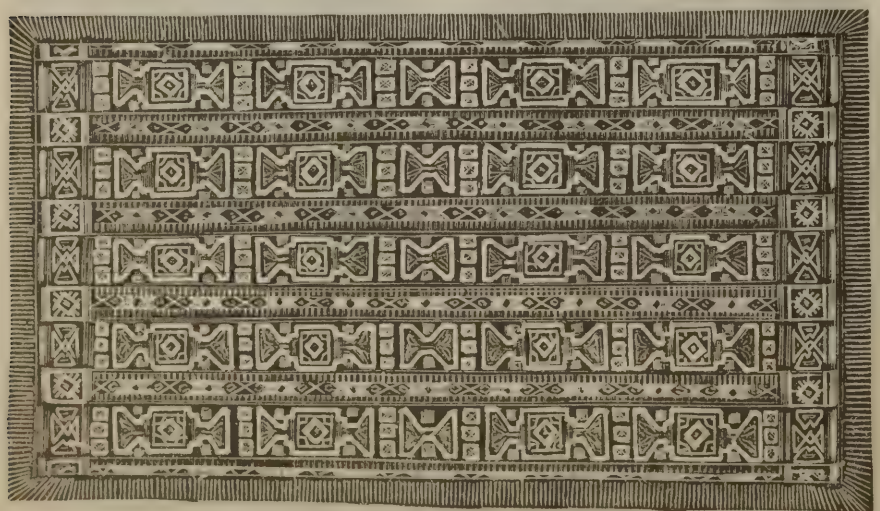
Oriental Couch Cover, $1.85

No. 23=A=173.

This pretty reversible Oriental Couch Cover is made of a heavy quality of tapestry, exactly alike on both sides; fast colors. Positively the most beautiful Oriental design ever made. Colors, old rose, olive green, tan, blue, gold, and red. Full 60 inches wide, 3 yards long, very heavily fringed. Price each **$1.85**



No. 23=A=175. 50-inch Curtains to match the above Couch Cover, 3 yards long with fringed end. Price, per pair **$3.35**



$2.85 Buys This Kelim Tapestry Couch Cover

No. 23=A=174.

This heavy Kelim Tapestry Cover, 60 inches wide, 3 yards long, in a splendid quality of tapestry. An exact copy of a fine hand made Kelim. Colors, blue, olive green, red and tan, heavily fringed and bordered. Price each **$2.85**

Same can also be furnished in Medallion patterns with tan, red and green colors.

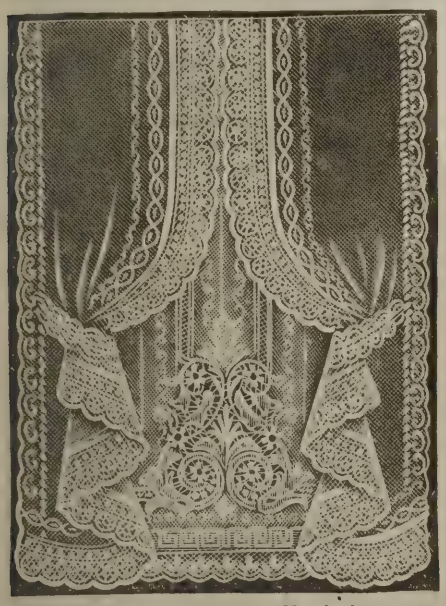
Buy One of these Oriental Couch Covers for Your Davenport or Couch.

HIGH-GRADE LACE CURTAINS

The lace curtains illustrated and described on this and the following pages represent the finest and costliest as well as most exclusive patterns manufactured by the most prominent and reputable eastern mills this year. These curtains are stylish as well as exclusive.

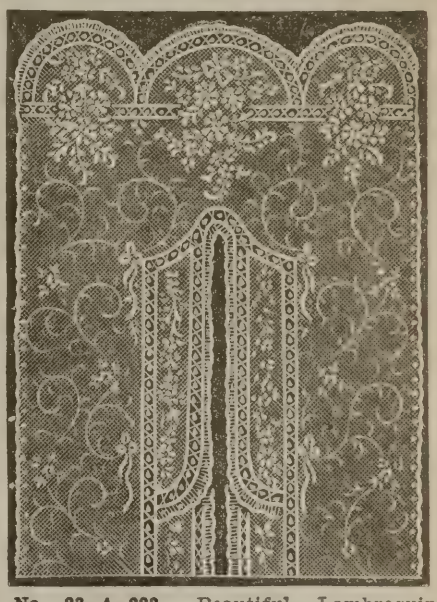
The surprisingly low prices we quote are positively beyond duplication elsewhere. We present an almost endless array of this season's choicest designs at what must be considered the **Lowest Prices** ever placed on curtains of similiar quality.

Place your order with us. We guarantee absolute satisfaction or return your money.



No. 23-A-221. Heavy Nottingham Curtain, 54 inches wide, 3 yards long, made in one solid piece, in the effect of draped curtains. Comes in either white or Arabian color. Be sure and state color wanted. We offer choice of any in lot at the exceptionally low price of, each.....**$0.56**

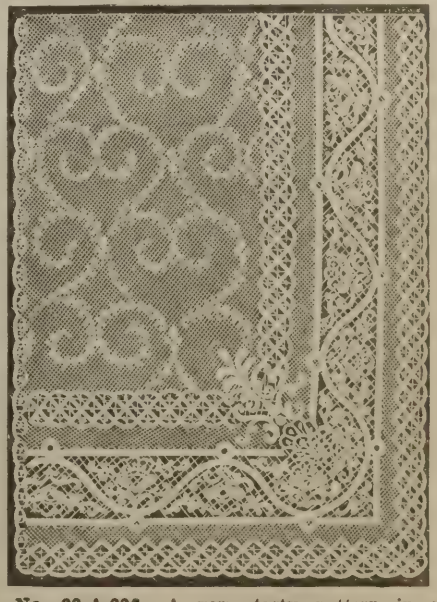
No. 23-A-222. Beautiful Brussels pattern, exceptionally good quality of Nottingham lace curtain, 36 inches wide, 3 yards long, made in either white or Arabian color. Be sure and state color wanted. This curtain is one of the best values that we have ever offered. The usual retail price is $1.00 per pair. Our price, per pair **$0.57**



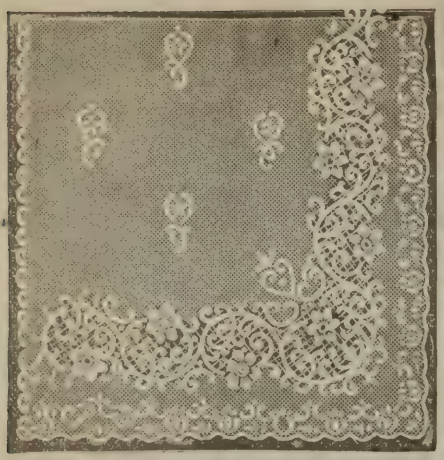
No. 23-A-223. Beautiful Lambrequin effect of Nottingham Curtain, made in one piece, divided at the bottom, giving the effect of a pair of curtains and made with a drop or throw-over at the top. 56 inches wide, 3½ yards long, made in either white or cream color. Be sure and state color wanted.
Price, each.....**$0.67**

No. 23-A-224. Handsome Nottingham Curtain, 30 inches wide, 82 inches long. This is the best bargain ever offered in a cheap curtain. Made in white only. Price, per pair **$0.36**

No. 23-A-225. This is a very handsome pattern and a choice weave Nottingham Curtain, in a copy of a fine import d curtain, 40 inches wide, 3 yards long, made in either white or cream color, regular retail value $1.50. Be sure and state color wanted. Our price, per pair.....**$0.67**



No. 23-A-226. A very tasty pattern in a choice Nottingham Brussels effect curtain, size 44 inches wide, 3 yards long, made in either white or cream color. Be sure and state color wanted. Usually sold at $2.25. Our price, per pair.....**$0.85**

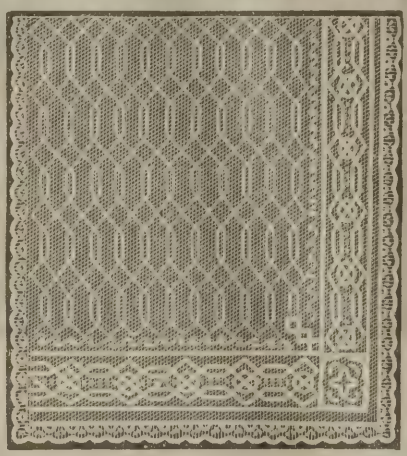


No. 23-A-212. A very choice, tasty pattern of Nottingham curtain, width 44 inches, length 3 yards, in a copy of a very fine imported curtain. The regular retail value of this curtain is $2.25 per pair; can be supplied in either white or cream color. Price, per pair $0.85

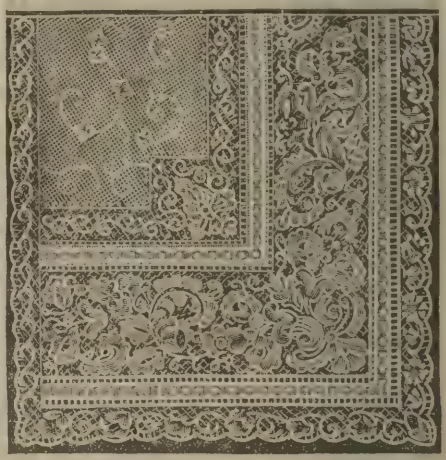
No. 23-A-213. Extra large choice Nottingham lace curtain, full 58 inches wide, 3 yards long, an exact copy of a very high priced Renaissance curtain; can be supplied in either white or Arabian color. Price, per pair $0.97

No. 23-A-214. Beautiful Empire wreath effect in a choice Nottingham curtain, made in white only; fine quality of net; exact copy of a very expensive curtain. Full 50 inches wide, 3 yards long, regular retail price $3.00. Our price, per pair.....$1.00

No. 23-A-217. Beautiful Brussels pattern in fine quality of Nottingham net. This is a copy of a very expensive Brussels curtain and is designed with one of the most beautiful floral patterns imaginable. This is an excellent bargain at the price. It is full 58 inches wide, 3 yards long, made in white only. Price, per pair $1.05



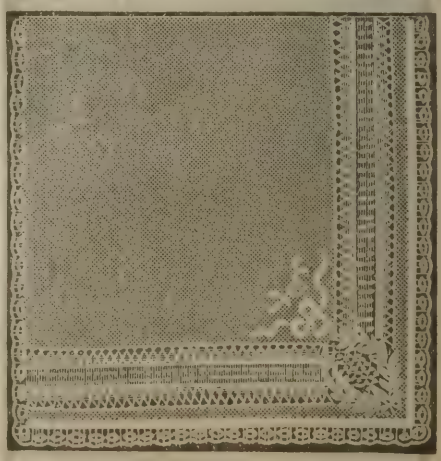
No. 23-A-216. Very tasty Nottingham curtain, especially suited for library or parlor, in an imitation filet lace. We can supply either white or Arabian color. Be sure and state color wanted, 44 inches wide, 3 yards long, at the exceptionally low price of, per pair $1.20



No. 23-A-215. Beautiful heavy Brussels effect Nottingham curtain, made with an exceptionally deep, handsome border, and a covered Brussels design in the center, especially suited for a parlor curtain, width full 60 inches, length 3½ yards, regular retail value $3.75, made in either white or cream color. Be sure and state color wanted. Exceptional value. Price, per pair.....$1.35

No. 23-A-218. Beautiful Marie Antoinette effect, fine Nottingham curtain, 52 inches wide, 3½ yards long; regular retail value $3.75. This we consider one of the tastiest and prettiest curtains ever sold for this price. Made in white only. A wonderful bargain. Price, per pair.....$1.35

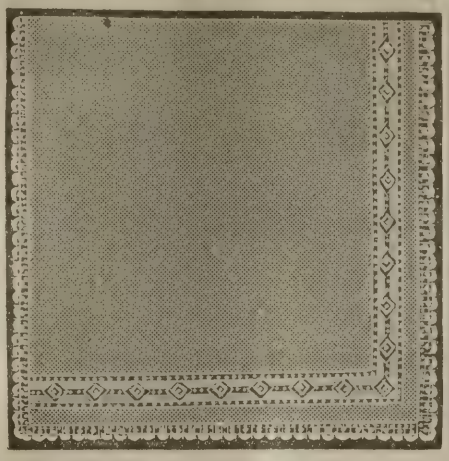
No. 23-A-219. Very stylish heavy Nottingham curtain, suitable for any room, full 60 inches wide, 3½ yards long, made in an exact copy of a very expensive Renaissance curtain. White only; value $3.75. Price, per pair.....$1.35



No. 23-A-220. Handsome Arabian curtain in a very choice parlor or library design, full 50 inches wide, 3 yards long, Either white or Arabian colors. Be sure and state shade wanted. This is a reproduction of a very expensive imported curtain; made with a beautiful heavy border and a plain center; regular value $4.00. Price, per pair.....$1.50

Unprecedented Bargains in Lace Curtains

No. 23-A-251. Beautiful new design in a fine parlor curtain, full 50 inches wide, 3 yards long; made with a very close, lacy net, in an exact copy of a very high priced curtain; made in both white and Arabian colors. Retail value $4.25. At the exceptionally low price of, per pair.....**$1.60**

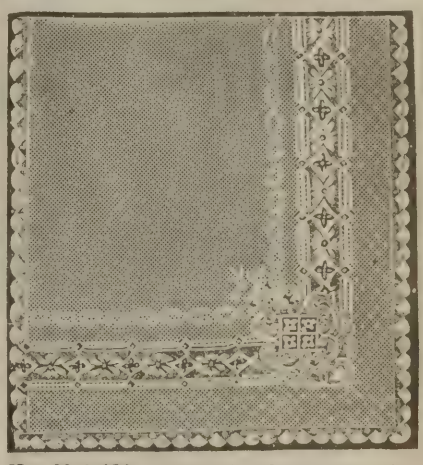


No. 23-A-252. Very fine quality Cable net, in a very choice Cluny pattern, 50 inches wide, 3 yds. long. This curtain will positively launder better than any other class of curtains made. Comes in white and Arabian colors. Be sure to state color wanted. Value, $4.25. Price, per pair.....**$1.75**

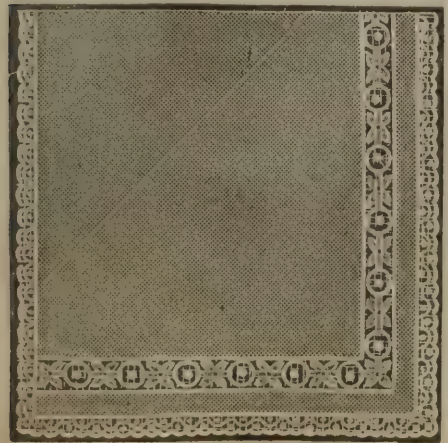
No. 23-A-253. Elegant parlor curtain, full 60 inches wide, 3 yards long. One of the choicest Renaissance designs ever shown in domestic goods. This curtain is positively worth $4.50 per pair at the regular price. Made in white only. Price, per pair.....**$1.95**

No. 23-A-254. The above illustration represents one of the handsomest and laciest curtains to be had at anywhere near the price we quote. Made in both white and Arabian colors, in a very handsome Empire design and covered center; full 54 inches wide, 3 yards long. Retail value $4.50. Our price, per pair.....**$1.95**

No. 23-A-255. Handsome parlor curtain, in a very desirable lacy effect; 55 inches wide, 3½ yds. long; made in white only. Value, $5.00 per pair. Price, per pair.....**$2.15**

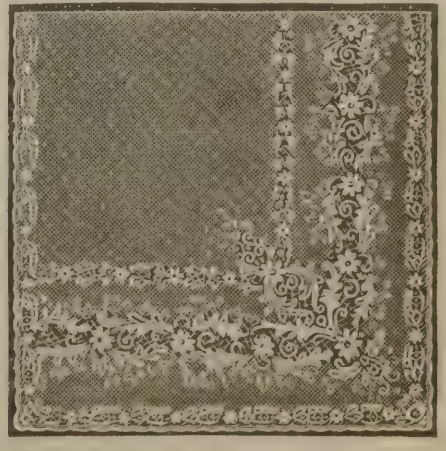


No. 23-A-256. Beautiful lacy effect in a plain center and rich heavy border, in a very choice Nottingham curtain; 52 inches wide, 3½ yds. long; white only. Retail value, $5.00. Our price, per pair.....**$2.15**



No. 23-A-257. The above illustration represents a very handsome Point d'Esprit parlor curtain; full 60 inches wide, 3½ yards long; made in white only. Retail value, $5.00 per pair. Our price, per pair.....**$2.30**

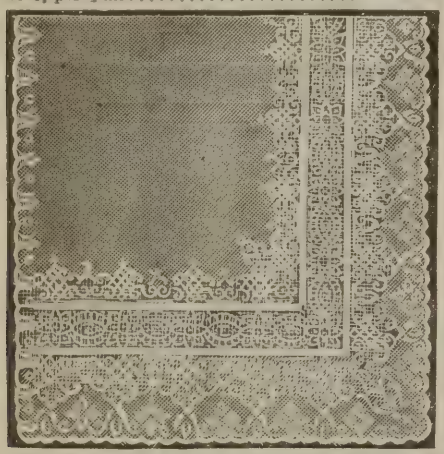
No. 23-A-258. The above illustration represents one of the most beautiful parlor curtains made in domestic goods. This is a very fine close weave and a very lacy effect; full 54 inches wide, 3½ yards long; made in white only. Worth $5.50. Our price, per pair.....**$2.65**



No. 23-A-259. The above illustration shows one of the very choice patterns in a handsome Cable net curtain. This curtain is made in both white and Arabian colors. 50 in. wide, 3 yds. long. Value, $5.50 per pair. Price, per pair.....**$2.65**

Exceptional Lace Curtain Values

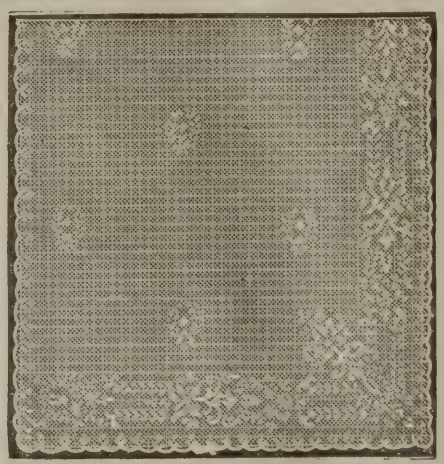
No. 23-A-260. Very choice Marie Antoinette parlor curtain, in one of the finest grades of domestic lace. This beautiful curtain is full 54 inches wide, 3 yards long, and is made in white only. Regular retail value is $6.50. Price, per pair.....**$2.65**



No. 23-A-261. The above illustration shows our very handsomest number in a two-tone ivory and ecru parlor curtain of the latest design. The border of this curtain is brought out in a very soft ivory shade, while the center is of ecru, making a very striking combination. The design is a copy of one of the very finest imported curtains, 54 inches wide, 3½ yards long. Retail value, $7.50. Our price, per pair.....**$3.40**

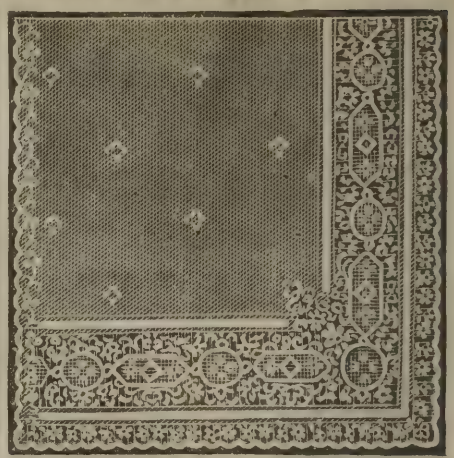
No. 23-A-262. The above illustration is the very handsomest and choicest design in the best quality of Cable net to be had in price. This curtain is an exact copy of one of the very handsomest imported hand-made curtains and is made of a very fine twisted yarn, 50 inches wide, 3½ yards long; made in both white and Arabian colors. Price, per pair.....**$4.15**

No. 23-A-263. Very rich Madras weave domestic parlor curtain. This is a very soft, lacy curtain and is made of an excellent quality of net. Width, 50 inches; length, 3½ yds.; made in white only. Retail value, $6.25. Price, per pair.....**$3.10**



No. 23-A-265. The above illustration shows the very newest thing in a combination Filet and Empire effect in a parlor curtain. This is an excellent quality of net, very fine and close. It is 50 inches wide, 3½ yards long, and comes in white only. Price, per pair.....**$3.75**

No. 23-A-267. This beautiful design is one of our greatest bargains. It is the finest grade of Madras weave curtain made. The design represents the reproduction of a very high priced imported Brussels curtain, 54 inches wide, 3½ yards long; made in both white and cream. Price, per pair.....**$4.40**



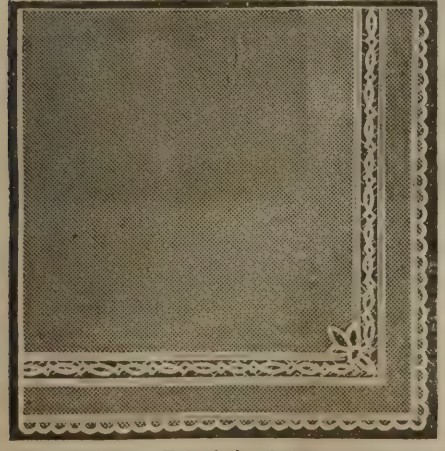
No. 23-A-264. The above illustration represents one of our most popular designs in a rich parlor curtain. Give us your order for this curtain and we are sure you will be thoroughly satisfied. If you want a handsome, rich appearing parlor curtain buy this design. It is 54 inches wide, 3 yards long. Value, $6.50. Price, per pair.....**$3.25**

No. 23-A-266. This handsome curtain represents one of our most wonderful bargains. It is one of the choicest patterns and finest qualities of domestic net, 54 inches wide, 3½ yds. long. White only. Retail value, $8.25. Price, per pair.....**$3.85**

No. 23-A-268. Our handsomest design in a fine parlor curtain. This is an exceptionally good quality of Madras net, made in white only, 54 inches wide, 3½ yards long. This curtain is reproduced from a hand made Brussels curtain. Price, per pair..**$4.55**

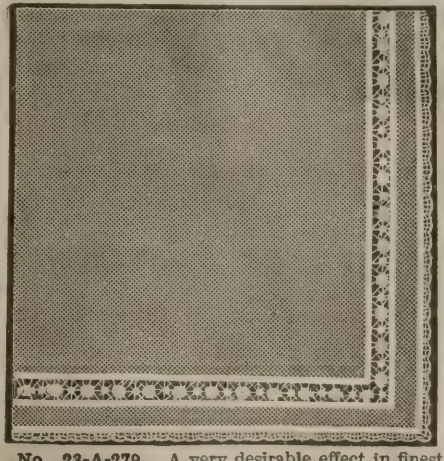
No. 23-A-275. Our very handsomest number of the new and fashionable two tone Brussels effect Nottingham curtain. This beautiful curtain is made in two colors. The design in the border and the center are brought out in white, the background being a rich ecru, making a very handsome combination. The quality of this curtain is such as to suit the finest taste, and we are sure it will give perfect satisfaction wherever ordered It is 50 inches wide, 3½ yards long, at the exceptionally low price of, per pair.....**$4.65**

No. 23-A-278. This beautiful design in Irish point Parlor curtains is one of the most desirable numbers that we quote. It is appliqued on especially fine quality of net, in a beautiful tinted design, made in white only, 46 inches wide, 3 yds. long, worth more than double our exceptionally low price of, per pair.....**$3.35**



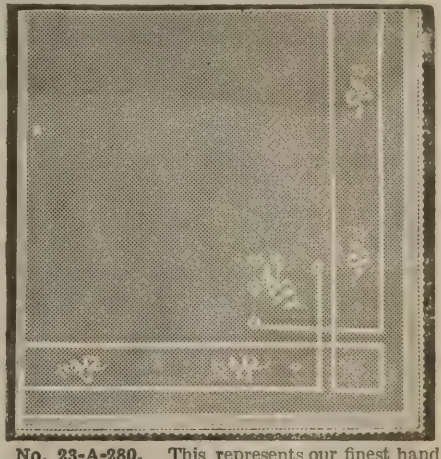
No. 23-A-281. This choice design of hand made Renaissance curtain, at less than half the regular value. This beautiful curtain is made with a handsome design of Battenberg or Renaissance insertion and edging, mounted on the finest quality of heavy net. Comes in either white or Arabian color. Be sure and state color wanted. 48 inches wide, 3 yds. long, at the exceptionally low price of, per pair **$4.90**

No. 23-A-276. The illustration represents a very handsome number in our finest quality of Madras weave lace. This curtain has a beautiful border in an exact copy of a fine Renaissance curtain, with a plain center, 54 inches wide, 3½ yards long. This curtain comes in white only and is sold by retail stores for more than double our exceptionally low price of, per pair.....**$4.85**



No. 23-A-279. A very desirable effect in finest quality of Cluny lace curtain. This curtain is made with genuine Cluny lace insertion and edging, mounted on the very best quality of net, 48 inches wide, 3 yds. long, made in either white or Arabian color. Be sure and state color wanted.
Price, per pair.....**$4.60**

No. 23-A-277. Our most desirable style of Brussels effect Nottingham curtain. This beautiful curtain is the very finest quality of domestic lace made, and is a reproduction of the finest in Brussels nets. We are sure this design and pattern will please you if you are looking for something in a high class curtain. It is 54 inches wide, 3½ yards long and comes in white only.
Price, per pair.....**$5.25**



No. 23-A-280. This represents our finest hand braided Renaissance curtain, made of the finest quality of net, with a beautiful design in Renaissance braid, made in either white or Arabian color. Be sure and state color wanted. 45 inches wide, 3 yds. long.
Price, per pair.....**$3.80**

A lace bed set will improve the appearance of any bedroom fully one hundred per cent. The design shown herewith shows just how this lace set would appear on any brass bed.

No. 23-A-282. This wonderful bargain in a handsome Battenberg braided bed set made for a full size bed, with bolster cover to match, of a fine quality of Bobinette, border 15 inches deep, center design 24 x 27 inches, with a medallion in the bolster cover to match 18 inches square. Made in white only. Retail value, $10.00. Price, each.....**$4.75**

Comforters at Less Than Wholesale Prices

In Order to encourage a speedy disposal of our recent large purchase of high grade Comforters, we have divided the entire stock into six different lots on which we have quoted positively sacrifice prices. We urge that you

Buy now at Wrecking Prices!

Retail Dealers will find it profitable to invest in a large number of the Comforters. They are soft, downy, fluffy and warmer than what you can ordinarily secure at this price. They're the product of one of the most prominent and reputable manufacturers.

We Urge all customers who appreciate a genuine bargain to order a number of these Comforters with the positive assurance that they are receiving the most wonderful values ever offered at the prices.

Remember you run no risk. We guarantee absolute satisfaction or refund your money. We expect to sell thousands of these Comforts and would suggest that you place your order at once. Don't delay until the lots are exhausted.

No. 23-A-200. In this lot we quote a large number of high class comforts made of extra good materials and which are highly artistic in appearance. Colorings come in red, green, blue and pinks and combinations of all of these shades. Size, 72x68. Weight, 6½ to 7 pounds each. Price.....**$0.95**

No. 23-A-201. In this lot are listed one of our very attractive bargains in a fancy comforter. Size, 68x75 inches. It is unusually beautiful in appearance, having a high grade covering of good quality and comes in a number of different color combinations in floral designs. This comforter is filled with pure white laminated cotton. Weight varies from 7 to 8 pounds. Price, each.....**$1.45**

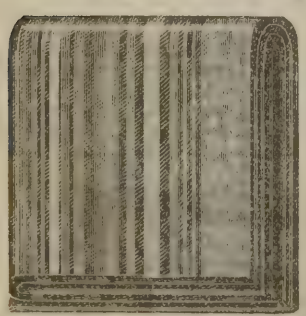
No. 23-A-202. These high grade comforts are in unusually handsome designs and colorings in the best quality of sateen covering. They come in a variety of colors, in pinks, greens, blues, reds, etc. Size, 75x68. Weight 7 to 7½ pounds. This will make a very satisfactory comfort for general use and is an extremely good bargain. Price, each.....**$1.65**

No. 23-A-203. 150 high grade cotton filled comforts. Size, 68x78. Weight about 7 pounds, filled with a sanitary cotton filling, quilted stitching. Come in all colors. Price, each.....**$1.65**

No. 23-A-204. 250 beautiful quilted comforts, size, 69x77. Weight about 7½ pounds, filled with pure carded cotton filling, guaranteed odorless, come in all colors. Price, each **$1.95**

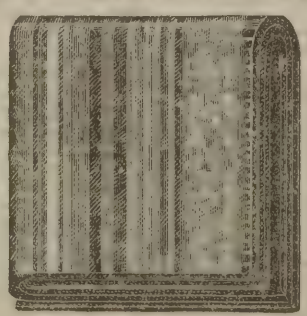
No. 23-A-205. 2000 of the highest grade comforts in this enormous stock have been arranged in one lot at the exceptionally low price of $2.35. These are full size comforts and are made in an absolutely first class manner. Filling is of the best quality of pure laminated cotton. Colorings are in all the desirable shades, such as reds, pinks, blues, greens, etc. State your preference as to color when ordering and we will fill your order in the most satisfactory manner. Weight, 6 to 8 pounds each. Price, each.....**$2.35**

New Blankets of the Highest Quality at 30 to 60 Per Cent Below Regular Prices



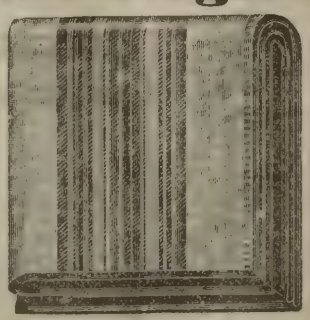
No. 23-A-198. 2000 high grade brand new gray mining blankets made of good quality cotton, closely woven. Size, 76x60 inches. Unusually warm and comfortable, excellent for camping, mining and similar purposes. Weight, 6 pounds. Price, per pair **$1.48**

No. 23-A-199. Extra quality genuine gray mining blankets. These are exceptional qualities, made of closely woven heavy cotton. These blankets are exceptionally large, measuring 76x60 inches. Weight about 6 pounds. These blankets have been thoroughly stretched and the colors are positively fast. These make an excellent blanket for camping, mining and similar purposes, where heavy warm blankets are needed. Price, per pair **$1.80**



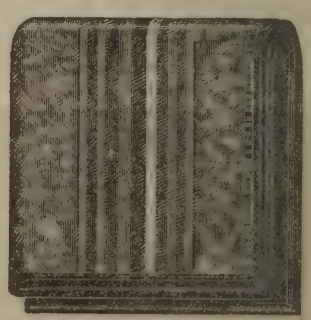
No. 23-A-206. 2700 pair of extra heavy quality dark blue mining blankets, closely woven. Fast colors Size, 72x80. Weight about 8 pounds. Price, per pair.....**$2.10**

No. 23-A-207. 550 pair of fine all wool, white blankets, size 72x80, made of a choice quality of wool with either pink or blue stripe, nicely bound and finished. Worth $5.00. Price, per pair.....**$3.25**



No. 23-A-208. 300 pair of extra fine quality, either white or gray, pure all wool blankets. Size, 72x80, finished in any color stripes. Weight approximately 5 pounds. Price, per pair.....**$3.85**

No. 23-A-210. 1200 pair of extra fine quality pure wool blankets, finished in either pink or blue stripes, size, 70x82. Weight about 5 pounds. Guaranteed the greatest bargain ever offered. Price, per pair.....**$5.00**



No. 23-A-115. 400 pair of extra heavy gray or white blankets, size, 72x86, weight approximately 5 pounds, positively the best bargain ever offered in the blanket line. Price, per pair.....**$7.50**

No. 23-A-209. 300 pair of the very finest quality of pure wool blankets, size, 72x84, weight approximately 6 pounds. The blankets in this line are the cream of our entire stock. The quality of this blanket can not be appreciated unless you see the blanket itself. This can be furnished in either pink or blue stripes. Price, per pair.....**$9.00**

We do not handle used home furnishings; every article guaranteed absolutely brand new and perfect.

Read This Page of Information Carefully
It Is of Priceless Value to All Furniture Purchasers

QUALITY.

The quality of the furniture which we illustrate and describe in this catalog is of the highest character. Every piece is guaranteed absolutely brand new and perfect. Every article is sold under an absolutely binding guarantee of perfect satisfaction. (See introduction to this catalog.)

K. D. SHIPMENTS.

By this expression we mean, furniture shipped knocked down or taken apart and carefully packed so as to secure minimum freight charges and avoid any possibility of damage occurring during transit. Any article described as shipped K. D. is of such construction that it can be easily and instantly assembled and firmly set together by even the most inexperienced person.

CARE IN SHIPPING.

After your order is received and entered and has been selected by our expert pickers, it is placed in our inspection department, where skilled cabinet makers go over each piece so as to see that every detail is perfect. They see that all drawers, removable parts, etc. are intact, after shipment to us from the original point of purchase, smoothing such parts as stick or bind, after which they undergo another inspection to see that no blisters, white spots or imperfections due to exposures or atmospheric conditions, are on any of the pieces. If any piece is slightly dulled in luster, we revarnish it, free of charge. The spot may be underneath the piece or in some place where it will not be seen, but at the same time we want to hold the confidence of our customers and consequently spend extra time and money seeing that each piece when shipped is in such a condition that it will exceed the utmost expectations of customer.

REFINISHING.

Or, matching a piece of furniture to the exact shade, etc., desired, will be done, if possible, when specified, free of charge. It is always possible to make golden oak darker, such as Fumed oak, Antwerp oak, weathered oak, and Early English finishes. As stated we make absolutely no charge whatever for this work, not even for the material, but do it in the spare time of our workmen. It, however, means a considerable delay, generally from one to three weeks. We have, however, installed this special feature to accommodate any of our customers who have special wishes with reference to the finishing of goods they order.

VENEERING.

Cross laid, 3 ply, 5 ply, and built-up stock, means choice grained selected stock of the various woods named which have been run through a special machine with keen knives, shaving it in thin rolls after which it is placed on furniture, producing beautiful figured effects that would be impossible otherwise. For instance, curved and irregular surfaces which cannot be made of solid wood and appear beautiful in graining, are veneered. If skilled workmen be employed and the best of stock used, as is done on all furniture which we list as veneered, you can rely upon it, that the veneering is even better than the solid stock and positively will not warp, peel or crack.

WEIGHTS.

All weights given on furniture are approximate weights. Same articles crated or boxed for shipment will scarcely over-weigh the amount we state, except in a few instances.

FIGURED OAK.

The term figured oak is plain oak, selected from the choicest grained stock. This wood has very pretty figured effects when made into furniture by skilled workmen. All furniture herein specified as plain oak, consists of the better quality.

QUARTER SAWED OAK.

Quarter sawed oak means oak, quarter sawed so as to show up to the best advantage the beautiful figured effects in the wood. We recommend quarter-sawed oak in preference to plain oak, as it is much handsomer and adds to a piece of furniture a richer appearance than can be obtained by the use of plain oak alone.

AMERICAN QUARTER SAWED OAK.

American quarter-sawed oak is perfectly seasoned hardwood finished with a large quarter sawed oak graining, so as to give it the appearance of genuine quarter-sawed oak. To all intent it is exactly the same in appearance. In other words, it is an imitation quarter-sawed effect, grained in a most realistic manner.

BIRCH, MAHOGANY.

All pieces of furniture in this catalog made of Birch, are selected only from the choicest grades of Northern Birch. All stock was carefully seasoned and kiln dried before being constructed into furniture. Every piece is carefully inspected so that only the best stock was used in its manufacture. The finish is of dark brown luster, same shade as genuine mahogany. It is the nearest imitation to genuine mahogany yet found. All of the most prominent and reputable furniture manufacturers use it extensively and it is found in some of the very finest and costliest furniture.

CUBAN MAHOGANY.

Cuban Mahogany means genuine stripped mahogany with the finest and choicest graining. The majority of pieces which we describe as being constructed of this quality wood are veneered, which means that only the richest part of the grain shows up. This is a most beautiful finish and cannot be compared in beauty to any other wood where a dark finish is wanted.

WHITE WOOD.

This is a good wood for unfinished surfaces, such as the top of kitchen cabinets, etc. This wood is of course unfinished and can be scraped, washed and easily cleaned. All pieces of this wood, which we have described, have been selected from carefully seasoned stock.

SATIN WALNUT.

This wood is otherwise known as American Red Gum, so universally used by this country's most prominent manufacturers of high priced furniture. This wood is subjected to a new steaming and seasoning process, which positively prevents warping and assists in bringing out the beautiful graining of this wood. It is rapidly coming into favor and popularity for all sorts of fine furniture.

IMITATION LEATHER.

Chase Leather, Boston Leather, Nantucket Leather, Pantasote Leather, Pullman Leather, Empire Leather, etc., are the various kinds of good imitation leather. The imitation is so perfect that it is almost impossible to detect it from the genuine article except upon very close examination. All of these imitations are about the same, each maker claiming slight advantages over his product. All of them are far superior to split leather which is the inferior quality leather and is practically worthless for upholstered goods. We do not under any circumstances sanction the use of split leather except for minor purposes, such as chair seats and other articles which are not tufted.

GENUINE LEATHER.

Genuine Leather, such as is used in the upholstering of the various pieces herein, is of good quality, selected from the best part of the hide. We do not classify split leather under this term and so misrepresent it as a good many unscrupulous dealers do. Although split leather is genuine leather, it is not practical for upholstering purposes, as it is bound to peel and crack within a very short time. Remember, in buying upholstered furniture from us, described as covered with genuine leather, you are securing a good quality of the real article and no worthless grade of the split article.

High Grade Kitchen Dining Chairs

All chairs illustrated and described on this page are shipped direct from point of purchase in Southern Indiana, except where otherwise specified. When ordering any of these chairs be sure and specify finish and kind of seat you desire. We particularly advise that you purchase these chairs in sets of 6. By doing this you will take advantage of freight rates and at the same time have a complete set at a proportionately lower price.

Lot No. 1-A-67. Substantial 3 spindle bow back kitchen chair made of hardwood with hickory stretchers, painted with two coats of yellow, striped and varnished. Also can supply this design in golden finish. Dished seat, size 14¾ inches square. To save freight charges get your neighbors to club with you and see that your orders amount to 100 lbs. or more. Weight, 9 lbs.

Price, each .....$ 0.55
Price, per dozen 6.25
Price, per 100 ..... 50.00

Lot No 1-A-72. Continuous arm dining chair, made of rock elm, golden gloss finish, shaped spindles, round back form fitting seat, turned legs. Recommended for strength, neatness and durability. Weight, 11 lbs.

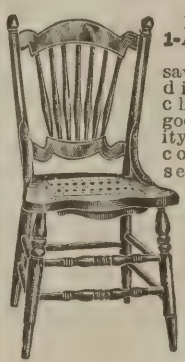
Price, each $0.80
Price, in sets of 6..... 4.50

Lot No. 1-A-77. A light yet very strong Colonial style dining chair, selected quartered oak golden finish, highly polished, strongly braced arms, continuous back posts. Height from back to seat 21 inches. Seat measures 16 inches across. Weight, 7 lbs.

Price each,.....$1.55
Price, in sets of 6 ..... 8.75

Lot No. 1-A-68. High grade kitchen chair, bow back type, heavy elm legs and 4 spindles; saddle seat, strong and comfortable. Golden oak finish, excellent chair for outdoor use. Weight, 10 lbs. Shipped from Chicago.

Price, each.....$ 0.75
Price, per dozen 8.40
Price, per 100..... 67.00



Lot No. 1-A-73. Quarter sawed oak dining chairs; good quality cane or cobbler seat, finished in rich golden gloss, reinforced arms; handsome chair, easily worth double our price. Weight, 9 lbs. Size of seat, 15½x17 inches.

Price, each $1.00
Price, in sets of 6..... 5.75

Lot No. 1-A-78. The above illustration will give you an idea of the exceptional beauty of this high grade dining chair. Beautifully embossed and carved panel back. Continuous posts, heavy legs. We recommend this design very highly. Can be furnished in different seats as specified below. Price, ea. cane or cobbler seat...$1.25
Price, in sets of 6..... 7.15

Lot No. 1-A-78½. Same as above with quartered oak saddle seat, each.....$1.55
Price, in sets of 6..... 8.75

Lot No. 1-A-78¾. Same as above with leather padded seat, each.....$ 1.80
Price, in sets of 6..... 10.30

Lot No. 1-A-69. High grade dining chair, substantial high back design, 5 spindles, carved panel back, strongly reinforced arms, hickory stretchers. Height from seat to top, 24 inches, seat 16 inches square, golden gloss finish. Weight, 13 lbs.

Price, each.....$0.80
Price, in sets of 6..... 4.50

Lot No. 1-A-74. Saddle seat dining chair, also with cobbler seat. Back legs and posts are one continuous piece, reinforced with arm braces. Panels rounded to fit the back, neatly carved. These chairs will not last very long at the price we quote. Weight, 12 lbs.

Price, each $0.75
Price, in sets of 6..... 4.25

Lot 1-A-74½. Same as above with the exception that it has an extra heavy saddle seat.

Price, each $0.80
Price, in sets of 6..... 4.50

Lot No. 1-A-79. Quarter sawed veneered oak dining chair, hand rubbed and polished all over. A remarkably strong and handsome chair. Weight, 12 lbs.

Price, each.....$ 1.95
Price, in sets of 6.....11.25

Lot No. 1-A-70. Light high grade strongly constructed dining chair. Lot consists of elm or solid oak golden finish. Can be furnished in either cane or cobbler seat. Weight. 10 lbs.

Price, in elm, each.....$0.70
Price, in sets of 6..... 4.00

Lot 1-A-70½. Same as above, oak throughout, cane or cobbler seat.

Price, oak, each $0.75
Price, in sets of 6..... 4.25

Lot 1-A-75. This dining chair is made of figured oak with quartered sawed oak back, handsomely carved and embossed at top and bottom. Seven spindles, strongly made braced arms; cobbler seat. Weight, 10 lbs.

Price, each $1.15
Price, in sets of 6..... 6.60

Lot No. 1-A-80. Beautiful Colonial dining chair. Artistic legs, seat and quarter-sawed back. Entire chair constructed of best quality figured oak in finely finished shade of golden. Square continuous back posts, braced arms. Weight, 12 lbs. Price each, cobbler seat.$1.55
Price in sets of 6.....8.75

Lot No. 1-A-80½. Leather padded seat, each.....$ 1.90
Price, in sets of 6.....11.00

Lot No. 1-A-71. Carved panel back dining chair, made of solid oak throughout, with exception of stretchers, which are of hickory. Excellent quality cane seat, turned legs and spindles, reinforced arms. Weight, 11 lbs.

Price, each.....$0.80
Price, in sets of 6..... 4.50

Lot No. 1-A-76. The illustrated chair can be furnished in three different styles seats as enumerated below. Made of oak throughout, finely finished in a rich golden gloss; large quarter-sawed panel back of embossed lion and scroll design. 7 heavy spindles,
Weight, 12 lbs.
Price each, cane or cobbler seat.....$1.25
Price, in sets of 6..... 7.75

Lot No. 1-A-76½. Same as above with exception that it comes with genuine leather padded seat.

Price, each.....$ 1.75
Price, in sets of 6..... 10.00

Lot No. 1-A-81. Colonial design dining chair, made of selected golden oak, is drop carved throughout, highly polished all over, tufted cobbler seat. A new and excellent pattern. This is one of the greatest dining room bargains, and you will miss an extraordinary value if you overlook this article. Seat measures 12½ x 18 inches. Height from seat to top of back 23 inches. Weight, 11 lbs.

Price, each.....$1.75
Price, in sets of 6..... 9.95

Exceptional Values In High Grade Dining Chairs

No. 1-A-230. Colonial Design Dining Chair, absolutely finest construction throughout. Made of quarter sawed oak, finished golden. Hand rubbed and polished. Has full box seat, no front rungs to obstruct the feet. Size of seat 17x19 in. Height of back 22 in. Note the oak banisters, which are rubbed and polished.

Weight, 13 lbs.

Price, each, cane seat.....$ 1.80
Per set of six..... 10.25
Price, each, genuine leather, upholstered over cane..... 2.15
Price, per set of six..... 12.00

No. 1-A-233. Selected Figured Oak Dining Chair, full standard size. Attractively designed dining piece. Shaped box seat. One of the best bargains we have ever offered in medium priced dining chair. Can be furnished in either genuine leather padded or cobbler seat, as preferred. We also have a few with quarter sawed oak saddle seats. Note the shaped banister designed back.

Price, each, genuine leather cobbler seat, or quarter sawed oak saddle seat.....$ 2.00
Price, per set of six..... 11.60
Price, each, padded seat..... 2.40
Price, per set of six..... 14.00

No. 1-A-231. Standard size, Golden Oak Dining Chair, made of selected quarter sawed oak. Unusually stylish and up-to-date design. Note the shaped rounded seat box construction. A set of these Dining Chairs will greatly add to the beauty of your dining room.

Weight, 15 lbs.

Price each, genuine leather, cobbler seat, as illustrated. $2.25

Price, set of six $12.95

Price each, genuine leather, padded seat... .....$2.40

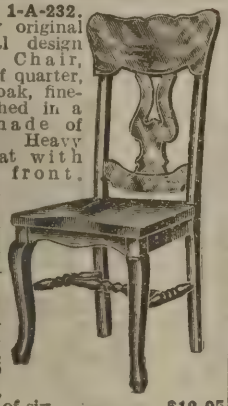
Price per set of six.....$13.75

No. 1-A-231½. Same as above, except it is furnished with quarter sawed oak, saddle seat.

Price, each.....$ 2.40
Price, per set of six..... 13.75

No. 1-A-229. High grade quarter sawed oak Dining Chair, hand rubbed and polished, French design legs, square stretchers framed in base, shaped back and rounded seat. Absolutely the finest construction and workmanship throughout. Can supply this Dining Chair in either cane or leather upholstered over cane seats. Wgt., 13 lbs.

Price, each, cane seat .....$ 2.40
Price, per set of six 13.75
Price, each, genuine leather upholstered over hand woven cane 2.85
Price, per set of six..... 16.50



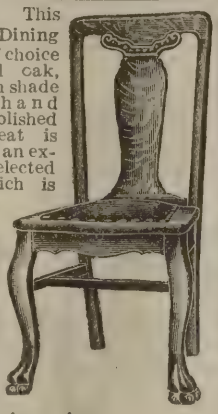
No. 1-A-232. Strictly original Colonial design Dining Chair, made of quarter, sawed oak, finely finished in a rich shade of golden. Heavy box seat with shaped front. French shaped legs. Turned hick'ry stretchers. Weight 12 lbs.

Price, each, $2.25

Price, per set of six.....$12.95

No. 1-A-232½. Handsome arm chair to match above Dining Chairs. We advise each purchaser of a set of the above Dining Chairs to order one of these Arm Chairs. Weight, 16 lbs.

Price, each $3.00

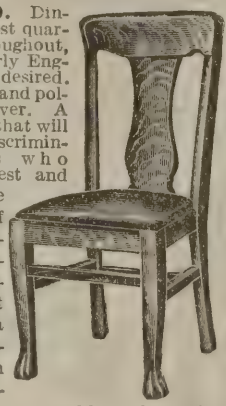


No. 1-A-128. This high grade Dining Chair is made of choice quarter sawed oak, finished in a rich shade of golden, hand rubbed and polished throughout. Seat is hand caned with an extra quality of selected cane over which is upholstered genuine leather. Square stretchers, French shaped legs, broad claw feet. An extra heavy, handsome appearing diner at an extremely low price.

Weight, 19 lbs.

Price, each.....$2.65

Price, each, Genuine leather upholstered over cane..... 3.35



No. 1-A-129. Dining Chair, finest quartered oak throughout, golden or Early English finish, as desired. Hand rubbed and polished all over. A classy design that will appeal to all discriminating persons who want the latest and most exclusive in the line of Dining Furniture. The design is Colonial, the latest make. Has a genuine leather seat, which is finely upholstered and removable. Illustration does not do the beauty or quality of the chair justice.

Weight, 20 lbs.

Price, each.....$3.50
Set of 6.....$20.50

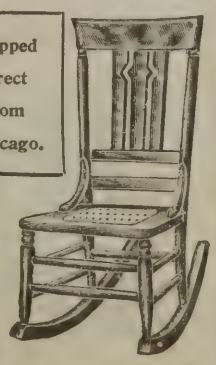
No. 1A-177. French design Dining Chair, reinforced base. Heavy hand carved claw feet, shaped legs. Genuine leather seat, upholstered over finest oil tempered spring construction. The back is handsomely carved at the top and has an upholstered leather cushion. Chair is made of quarter sawed oak, finished golden, hand rubbed and polished. Absolutely one of the finest dining chairs made.

Weight, 22 lbs.

Price, each.....$ 7.00
Price, per set of four..... 26.00
Price, per set of six..... 38.50

Wonderful Bargains in Bedroom Rockers and Chairs

Shipped from point of purchase in Southern Indiana.



Shipped direct from Chicago.

Shipped direct from point of purchase in Southern Indiana.

No. 1-A-122. Bed Room Chair, solid construction. Can be used as Reception Hall Chair. Quartered oak, panel back, gloss finish. Continuous back posts, hand carved panel back with seven turned spindles. Braced arms, box front. Cane, or saddle seat. Weight, 13 lbs.

Price each, cane or saddle seat.....$1.30

No. 1-A-123. This Rocker is an exact match to Bed Room Chair No. 122, shown at left. The finish and construction are the same throughout. This is a substantial, solid and very pretty Parlor, Bed Room or Hall Rocker.

Price each, cane or saddle seat.....$1.50

No. 1-A-124. This Bed Room Chair is made of finely grained Golden Oak, highly polished. Can be also furnished in Birch Mahogany, polished or dull finish and in Bird's Eye Maple, polished. We also have a few in Early English finish. This is a very attractive up-to-date pattern and a very exceptional value at price.

Weight 9 lbs.

Price, each.....$2.40

No. 1-A-125. This Rocker is the companion of Bed Room Chair No. 1-A-124. Can be supplied in Golden Oak, Early English and Bird's Eye Maple. Beautiful Rocker for Bed Room or Reception Hall. Can be also utilized as a Parlor Rocker.

Weight, 9 lbs.

Price, each.....$3.00

No. 1-A-126. Finest quality finely figured, quarter sawed oak Bed Room Chairs; shaped saddle seat, box frame, French shaped legs, continuous back posts, hand rubbed and polished. We have a few of these chairs with cane seats. Weight, 15 lbs.

Price each, cane or saddle seat.....$3.20

No. 1-A-127. Bed Room or Reception Hall Rocker. Solid construction and comfortable. Nothing finer in this type of rocker made. Choicest quartered golden oak. Exact match to No. 126.

Weight, 15 lbs.

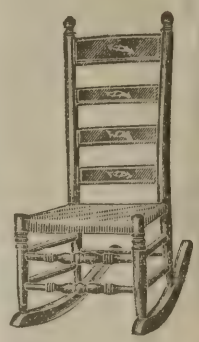
Price each, saddle or cane seat $3.30

HIGH CHAIRS, NURSE ROCKERS, ETC.

No. 1-A-1. Substantial and attractive high chair, painted red, yellow or golden oak finish; wood seat, ornamented back. Foot rest. Weight, 10 lbs.
Price $0.80
No. 1-A-1½. Same without table.
Price $0.59

No. 1-A-2. A fine quarter sawed oak high chair, large and strong, golden finish. Table can be lifted out of way when desired. Either cane or cobbler seat. Weight, 12 lbs.
Price $1.45

No. 1-A-3. Handsome child's chair, painted red, striped and ornamented. 21 in. high, seat, 12x12 in.
Price $0.35
No. 1-A-3½. Child's rocker to match.
Price $0.40

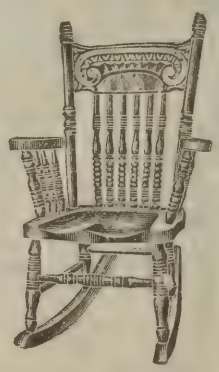


No. 1-A-4. Pleasing and substantial nurse rocker, very comfortable. Double cane seat, selected hardwood frame, golden oak, mahogany or natural finish. Back 25 in. above seat. Weight, 7 lbs. Price....$0.95

No. 1-A-18. An attractive nurse rocker of an excellent type, golden finish, solid oak throughout, either cobbler or cane seat, very handsome and comfortable. Weight, 9 lbs.
Price.....$1.00

No. 1-A-5. An exceptionally comfortable and attractive nurse rocker. Stoutly constructed, made of selected golden oak, with artistic embossed back and cobbler seat. Weight, 12 lbs.
Price $1.10

No. 1-A-6. Cobbler or cane seat nurse rocker, extra roomy, with high back, beautifully carved. Solid oak, golden gloss finish. Weight, 13 lbs.
Price.....$1.35



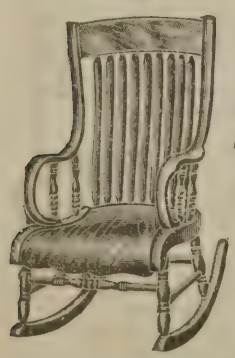
No. 1-A-7. American quarter golden oak arm rocker, turned legs, arm and spindles, solid saddle seat. Broad arm and carved panel back. Weight, 18 lbs. Shipped from Chicago.
Price $1.35

No. 1-A-8. An unusually pretty golden finished hardwood rocker. Tufted cobbler seat 20 in. wide. Embossed panel back 28 in. high. Weight, 17 lbs.
Price $1.70

No. 1-A-9. Heavy cane seat arm rocker. Solid oak, golden finish; or birch, mahogany finish. Broad arms. Rounded panel back. A decided value. Weight, 17 lbs.
Price $1.75

No. 1-A-10. Large, broad continuous arm rocker of a handsome type; wide, shaped saddle seat. Heavy rounded back panels, deeply carved. Golden finish. Chicago stock. Weight, 20 lbs.
Price.....$2.00

No. 1-A-11. Solid golden oak rocker of beautiful design, wide rodded arms. Carved panel back 28 in. high. Cobbler seat 22 in. wide. Weight, 17 lbs.
Price $2.00



No.1-A-12. Roll seat, continuous arm, golden oak rocker. 9 bent spindles in high back. Extra large seat. Weight, 17 lbs.
Price $2.85

No. 1-A-13. An excellent solid, golden oak rocker. Tufted cobbler seat and back. Heavy construction. Roomy and comfortable. Weight, 18 lbs. Beautifully finished.
Price.....$2.90

No. 1-A-14. Highly polished solid oak or imitation mahogany rocker. Very handsome. Finely constructed. Cobbler seat. Broad and high carved panel back. Weight, 20 lbs.
Price $2.95

No. 1-A-15. High grade saddle or cobbler seat rocker. Made of richest quarter sawed golden oak. Large, comfortable and artistic. Weight, 23 lbs.
Price.....$2.60

No. 1-A-16. Solid golden oak, cane seat, dairy lunch chair. Large size. Finely constructed throughout. Weight, 20 lbs.
Price each.....$ 1.80
Per dozen.....18.50

No. 1-A-17. This finely finished solid golden oak chair is large and roomy and recommended for hotel, office or home. Wood saddle seat. Strongest and best construction. Weight 17 lbs.
Price.....$1.70

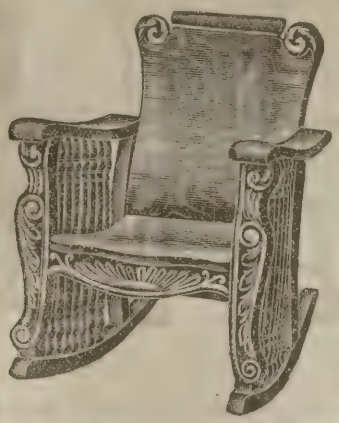
All Chairs on This Page Are Shipped From Point of Purchase in Southern Indiana, Unless Otherwise Specified.

PARLOR ROCKERS

Roomy and Reliable — Tasty and Pleasing — Rich and Appealing — An Incomparable Value

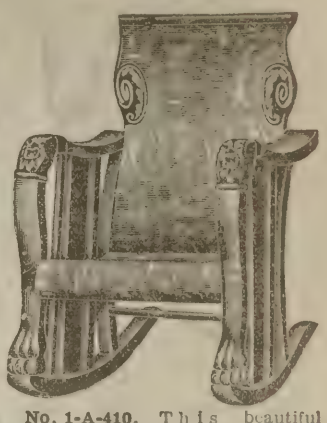
No 1-A-407. This massive roll seat Rocker is made of quarter sawed oak, finished in a rich golden gloss. Comfortable seat and back. The seat is 19 ins. wide, the back 21 ins. wide and 25 ins. high from the seat. Has 4 inch broad arms, supported on ten handsomely turned spindles, running from arm to the rocker. Front pieces are two ins. wide and shaped in pure Colonial style. Shipped K. D., crated from Chicago Warehouse stock. Weight, 35 lbs.
Price, each $4.35

No. 1-A-408. This handsome Parlor Rocker is of very similar construction to the one illustrated at the left, but is somewhat larger. The seat is 20½ in. wide, while the back is 21 in. wide and 26 in. high from the seat. The arms are 4 in. wide. The front column posts are handsomely turned and are made of quarter sawed stock, 2½ in. in diameter. We also have a few of these rockers which we can furnish in early English finish. We recommend this finish in preference to the golden oak finish. Weight, 45 lbs. Chicago shipment.
Price, each $6.00



No. 1-A-409. This extra large and comfortable Rocker has wide arms which are supported by 14 heavy continuous posts. Has a shaped saddle seat. It is made of quarter sawed oak, hand rubbed and polished to the highest luster. Can be supplied in Early English or golden oak finish as preferred. Chicago stock.

This is an artistic parlor piece which will greatly add to the beauty of any home in which it is placed. Shipped K. D. so as to secure the lowest freight rate and prevent any possible damage occurring while in transit. Can be easily set up by anyone in few minutes time. Weight, 45 lbs.
Price, each $6.35



No. 1-A-410. This beautiful Rocker can be furnished in either quarter sawed golden oak or genuine mahogany. Both finishes are hand rubbed and polished to the highest luster. Not a detail is overlooked that would in any way detract from its beauty. Arms are 3½ in. wide. Positively nothing better in the Rocker line manufactured. Comfort and elegance combined. Its impressiveness and high back cannot be appreciated except by seeing and using one or two of these. Shipped from Chicago. Weight, 65 lbs. Price, each $7.50

FIRESIDE ROCKERS and Roman Chairs

No. 1-A-289. This comfortable Rocker is one of the neatest and most attractive designs of its type. Has a deep roll seat with ornamented front. Back is rounded to fit body. The posts, arms and back spindles are artistically turned. This rocker is veneered with quarter sawed oak finished golden and highly polished. Weight, 21 lbs. Shipped from Southern Indiana. Price, each $4.30

No. 1-A-288. Beautifully made of quarter sawed oak finished golden. Has a shaped saddle seat size 21 ins. wide and 19 ins. deep (front to back). Is hand rubbed and polished to the highest luster. Back is upholstered in genuine leather. The sides and panels of the back are handsomely inlaid with pearl. Strongest construction. Front posts are mortised into runner and arms. Slats in top also mortised into post. Height of back from seat 30 ins. Weight, 35 lbs.
Price, each $5.65

No. 1-A-290. This strong artistic roll arm Colonial rocker has an exceptionally high back. It is made of quarter sawed oak, finished golden with a handsomely figured back and roll seat. The entire frame is polished to a high finish. Seat measures 20 ins. wide and 22 ins. deep. Height of back from seat is 28½ ins. When ordering, advise if you wish it shipped K. D. or set up. Will ship it either way. Weight, 28 lbs.
Price, each $6.25

No. 1-A-412. Roman Chair, suitable for finest parlor, reception hall or almost any corner of the house. It is finely finished in a rich mahogany luster with a genuine mahogany seat and back. Entire chair is hand rubbed and polished all over with exception of the hand carved ornamentations which are left in a natural dull finish. Width 24 ins., depth (front to back) 25 ins., height of back from seat 25 ins. Wt., 60 lbs. Chicago stock.
Price, each $7.00

No. 1-A-411. This is a new design in a massive Roman Chair. We have a large number of these pieces and can supply them in either quarter sawed golden oak or genuine Cuban striped mahogany. Hand rubbed and polished. The hand carved ornamentations are not polished but are in the natural dull finish, so as to contrast with the brilliancy of the balance of frame. Width of seat is 24 ins., depth (front to back) 25 ins.; height of back from seat, 30 in. Weight, crated, 65 lbs. Price, each, quarter-sawed oak..... $7.00
Price, each, genuine mahogany $7.50

Upholstered Parlor Rockers

No. 1-A-314. High back parlor rocker, generous size, back being higher than ordinarily found in similar rockers and affording a comfortable and easy rest for the head. Design is new and up-to-date. Made of quarter sawed oak, finished golden. Entire frame is hand rubbed and polished. Worthy of a place in the finest home. Heavy quality spring construction, over which is upholstered a high grade covering of genuine leather. Perfectly designed and constructed. Weight, 40 lbs.

Price, each.....**$5.60**

No. 1-A-243. Medium sized parlor rocker, can be furnished in either highly polished golden oak or northern birch hand rubbed and polished mahogany finish. Solid oak saddle shaped seat. Broad rounded arms. Spindles in back shaped to fit contour of body. Spreading type base. Unusually beautiful parlor piece at a remarkably low price. Weight, 20 lbs. Shipped from Chicago.

Price, each.....**$3.95**

No. 1-A-248. Quartered oak parlor rocker finished golden. Upholstered in various coverings as designated below. Continuous posts. Broad arms. Distinctly up-to-date rocker of the finest construction.

Shipped from Chicago.

Price, each, Quartered oak roll veneer seat.....**$4.25**

Price each, Imitation leather, velour or tapestry seat.....**$5.25**

Price each, genuine leather or silk damask seat..**$6.25**

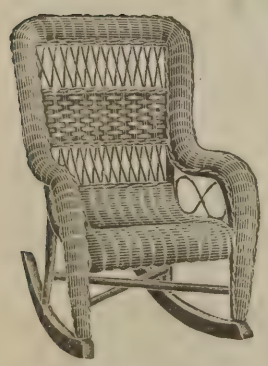
No. 1-A-242. Handsome parlor rocker, quarter sawed oak finished golden, or best northern birch mahogany finished with genuine mahogany back panels. Broad shaped stretchers large size continuous arms. One of the most comfortable chairs of its kind we have ever catalogued. Extra large and strong. A parlor or library piece. Weight, 23 lbs. Shipped from Chicago stock.

Price each, any finish mentioned above.**$5.95**

No. 1-A-244. This modern design large roomy parlor rocker is made of quarter sawed oak with genuine leather uphostered seat. Has an extra quality high tension spring construction assuring comfort and durability. Broad roll arms. This rocker has seat at a comfortable angle and will not pitch forward like the majority of rockers. Weight, 28 lbs.

Price, each.....**$5.90**

Five Favorite Rockers



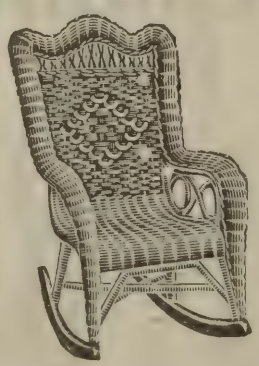
No. 1-A-325. 75 Handsome rattan rockers (exactly like illustration). Made of good quality reed; closely woven, substantially constructed, good workmanship and finish. Comfortable, spacious and roomy. Standard size. Weight, 12 lbs.

Chicago warehouse stock.

Price, each.....**$2.15**

No. 1-A-325½. 60 Reed rockers very similar to illustration. Best grade of reed.

Price, each.....**$2.50**



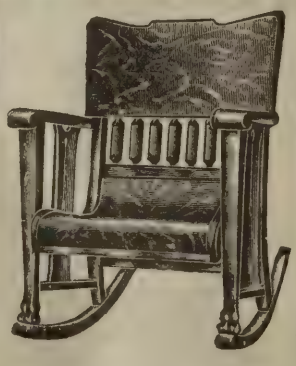
No. 1-A-326. 90 Full roll reed rockers (exactly like illustration). Braced back and front. The back is artistically worked out in hand turned reed and is constructed of closely woven stripped fibre of unusual strength and beauty. Cross rung base mortised to each leg. Offered at far below regular price. Standard size. Weight, 15 lbs. Chicago stock.

Price, each.....**$4.65**

No. 1-A-310. Parlor rocker, best construction and workmanship throughout. Seat is upholstered over high grade coil spring construction. Shaped legs and stretchers. Mission style, back panel made of quarter sawed oak, finished golden or Early English. We also have a few in golden oak finish. Shipped from Chicago.

Price each, upholstered genuine black leather or Spanish leather.....**$7.50**

Price each, upholstered in Chase leather.....**$6.20**



No. 1-A-247. Quarter sawed oak rocker golden finish, 7 spindle back. Open carvings in side panels. Square stretchers. Hand rubbed and polished to the highest luster. Beautiful parlor, library or den piece. Can be furnished in either golden or Early English finish. Note the roll arms and tapering posts with claw feet. Weight, 33 lbs.

Price, each.....**$7.50**

No. 1-A-313. This unique rocker is of the finest possible construction throughout. It is made of selected figured oak, finished either in Old English, mission, or golden. It has an extra heavy, oil tempered spring construction with diamond tufted upper panel. Comfortable, spacious and restful. Weight, 30 lbs. Chicago shipment.

Price each, upholstered genuine leather or genuine Spanish leather seat and back.....**$7.25**

Price each, Chase leather seat and back.....**$6.00**

Upholstered Rockers and Roman Chairs

No. 1-A-281. This artistic Roman chair is made of choicest Northern birch finished in mahogany. Finely upholstered seat covered with best quality figured veneer. Back is profusely adorned with hand carved ornaments. Weight, 15 lbs.

Price, each.....**$4.40**

No. 1-A-284. This high grade Roman chair is made of selected Northern birch finished in rich shade of mahogany, (gloss.) It has broad flat arms and a large spacious comfortable seat. The upholstery consists of extra quality velour in all of the latest colors. Filling consists of tow and cotton felt. Furnished with good quality casters. A beautiful parlor piece. Weight, 15 lbs.

Price, each.....**$2.95**

No. 1-A-275. Massive Colonial arm chair, mahogany finish, hand rubbed and polished. Broad shaped arms, Fleur de Lis pattern back. Rounded seat. Elastic cotton felt filling, upholstered with good quality chased leather. A piece that would prove a handsome addition to any parlor. Weight, 21 lbs.

Price, each.....**$5.75**

No. 1-A-157. High back quarter sawed oak rocker. Almost equal to a Turkish rocker in comfort and style. Seat is 21 inches wide, upholstered over six oil tempered springs. The back is diamond tufted, with 49 tufts. Ruffled edge, back and top. Broad, comfortable arms. Broad, square spindles running clear to rockers makes this the strongest type of construction possible to produce. The finish is hand rubbed and polished all over. Weight, 70 lbs.

Price, each, Chase leather..**$7.45**
Price, each, Genuine leather **9.50**

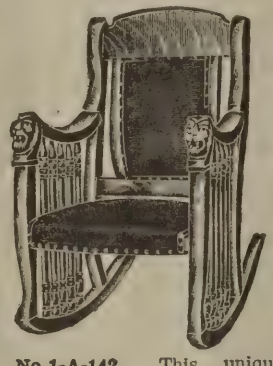
No. 1-A-416. Made of solid oak, finished golden, with a genuine quarter sawed oak back panel. The seat is upholstered with genuine leather stamped 13 in. cobbler seat. Extreme size of seat is 22 x 18 in. Back is 28 in. high from seat. The quarter sawed oak back panel is 18 in. high and 24 in. wide The great beauty of this chair is its high polish, being hand rubbed and polished throughout. Weight, 21 lbs.

Price, each **$4.25**

No. 1-A-414. Quarter sawed Oak Rocker, finely adorned with deep, hand carved ornamentations. Large size seat, upholstered with good quality velour over a high grade oil tempered spring construction. Back is fitted with a loose velour cushion which fastens to back post, and has seven large tassels at the bottom. Weight, 20 lbs.

Price, each.....**$3.15**

No. 1-A-414½.
Price, each, without back cashion..**$2.65**



No.1-A-142. This unique rocker is 39 inches high and has a seat 23 inches wide. Frame is made of quarter sawed oak, finished golden, hand rubbed and polished; has broad front posts of neat and tasty design, with carved lion's head on top. The arms are broad and shapely; continuous back posts and uprights. Five turned spindles run from the arms to rockers. The strongest type of construction throughout. Upholstered in genuine leather, Canadian moss and genuine hair filling. Weight, 65 lbs.

Price, each.....**$9.90**

No. 1-A-1010. This large, roomy and comfortable parlor rocker is of the finest construction throughout. It has a guaranteed oil tempered spring construction, over which is upholstered genuine leather. Has a quarter sawed oak frame, hand rubbed and polished, finished golden. Weight, 25 lbs.

Price, each.....**$8.25**

No. 1-A-1010½. Same as above with genuine leather upholstered back.....**$9.25**

No. 1-A-152. Simple design Colonial rocker, quarter sawed golden oak frame, polished or dull wax finish. Also a few finished in Early English. Arms are broad and shapely; strong frame. Seat is upholstered over a heavy spring construction; finely upholstered back. Weight, crated, 40 lbs.

Price, each, Chase leather .....**$ 9.00**
Price, each, Genuine black leather or Spanish leather **$11.75**

No. 1-A-287. This Rocker is made of solid oak, finished golden, and has a quarter sawed oak back and leather cobbler seat. It is highly polished. The posts, stretchers, arm spindles and legs are as beautiful as illustrated. Weight, 19 lbs.

Price, each **$3.40**

No. 1-A-287½. Chair to match. Price, each ...**$3.70**

No. 1-A-419. This rocker is extremely large size and extra spacious and comfortable. Seat is 21 inches wide. It can be furnished in quartered sawed oak or genuine mahogany, both finishes being hand rubbed and polished to the highest luster. It is richly ornamented with deep clear cut hand carved ornamentations. Has a shaped saddle seat measuring 2 inches thick at the front, and entire piece is hand rubbed and polished throughout with the exception of the carvings which are left in the dull finish. Weight, 50 lbs.

Price, each, quartered oak.....**$8.65**

Price, each, genuine mahogany..... **9.00**

No. 1-A-153. Large, roomy and very handsome Turkish rocker with a stationary platform base, imitation mahogany finish Diamond tufted back, ruffled front and top. Upholstered arms and seat, elastic felt filling. Non-pull-out buttons, best guaranteed spring construction. This is a medium priced chair that will please anyone looking for a comfortable, plain, substantial Turkish rocker. Weight, 85 lbs.

Price, each, upholstered in black drill imitation leather.....**$8.75**

UPHOLSTERED ROCKERS AND CHAIRS

$5.25

$5.25

No. 1-A-36. Parlor Rocker, selected oak frame, finished in a golden gloss, highly carved; upholstered in the best quality Boston leather, heavy cotton felt filling. A piece of furniture that will give years of service and great comfort. Height, 42 inches, width, 31 inches, depth from front to back, 24 inches. Weight, 60 lbs.
Price, each.....$5.25

$7.85

No. 1-A-37. A high grade quartered oak Rocker, standard size, veneered back rail, highly polished. Finest and strongest construction throughout. Spring seat is equipped with full quota of oil tempered springs; heavy cotton felt filling, genuine leather upholstery. Nine spindles in back. Weight, 40 lbs. Price each.....$7.85

No. 1-A-37½. Side chair to match. Price.....$7.85

$7.50

No. 1.-A-38. Beautiful, highly polished mahogany finish Parlor Rocker, made of birch. Front and back legs are continuous and run to the top of the chair, insuring unusual strength. Loose cushion seat of finest crushed silk plush in myrtle green shade, fastened with handsome silk tassels and cord. Shipping weight, 45 lbs.
Price each.....$7.50

No. 1-A-38½. Chair to match. Price.....$7.50

$8.00

$8.00

No. 1-A-39. Sleepy Hollow Rocker, made of fine grain birch, mahogany finish; shaped roll arms, continuous back and seat, large hand carved claw feet. Seven rows of diamond tufts, buttons being fastened with steel prongs. Filling consists of genuine hair over tow. Shipping weight, 55 lbs.
Price each, Boston Leather.....$8.00
Price each, Genuine Leather.....10.75

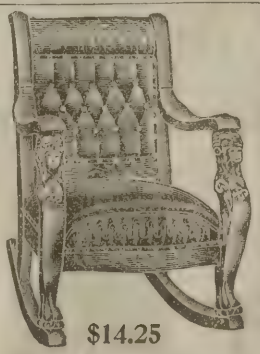
$10.50

$10.50

No. 1-A-40. This Parlor Rocker is made of selected birch, highly polished, in mahogany finish. Construction is of the very finest, has full spring seat. A chair which embodies every detail that goes into a high grade piece of furniture. We recommend this bargain very highly. Weight, 60 lbs.
Price.....$10.50

$9.95

No. 1-A-41. This Rocker can be furnished in either solid quarter sawed oak or birch mahogany frame. An exceptionally comfortable rocker. Has a full spring upholstered seat and thickly upholstered back, covered with best quality of Royal leather over cotton felt; neatly carved. Has shaped roll arms and dragon's head upright posts. Weight, 50 lbs.
Price, each.....$9.95



$14.25

No. 1-A-42. The workmanship of this beautiful Parlor Rocker is of the very finest. Seat is upholstered with large oil tempered coil springs, back has seventeen large diamond tufts, fastened with non-pull out buttons. Ruffled spring edge. Beautifully carved. Furnished in either quarter sawed oak or birch mahogany frame. Weight, 70 lbs. Each. $14.25

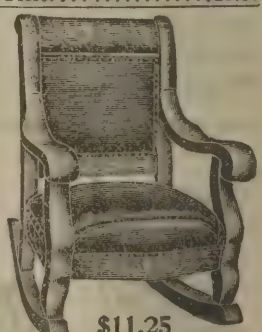
No. 1-A-42½. Same as above except with plain upholstered backs, not tufted.
Price.....$12.75

$11.95

No. 1-A-43. A rare bargain in extremely high grade Parlor Rocker, made of birch throughout, mahogany finish, hand rubbed and polished. Genuine mahogany veneered back panel. Beautifully carved and shaped. Selected plush cushion (all colors), tied at the corners with silk cord and tassels, easily removed. A piece of furniture that will last a lifetime. Weight, 45 lbs.
Price, each.....$11.95

$11.90

No. 1-A-44. Sleepy Hollow design Rocker. We can supply this design in either quarter sawed golden oak or birch mahogany frames. Large hand carved heads on front of arms. Height, 41 in., width, 26 inches, width of seat, 23½ inches. Genuine leather upholstery. This chair is form-fitting and unexcelled for general comfort. Weight, 80 lbs.
Price, each.....$11.90



$11.25

No. 1-A-45. A handsome Parlor Rocker, constructed along very pleasing Colonial lines. Spring edge, roll arms and high back, assuring maximum of comfort. Can be furnished in quarter sawed oak or birch mahogany frame. Upholstered with best quality Royal leather. A Rocker built to last a lifetime. Highest grade spring construction. Weight, 70 lbs.
Price, each.....$11.25

$14.25

$14.25

$14.15

$14.15

No. 1-A-46. We recently purchased a large stock of Rockers and Chairs and find among the lot about fifty Rockers, like above illustration, with side Chair to match. We can furnish these pieces in either quarter sawed oak or birch mahogany. The massive frames are hand rubbed and polished. The extreme depth, breadth and height of these pieces make them most comfortable. The backs are deeply tufted with hair over tow. Non-pull out prong bottoms. Hand carved claw feet. Upholstered with fine quality of genuine leather. Weight, 75 lbs. each.
Price of Rocker.....$14.25 Price of Chair.....$14.15

LIBRARY ROCKERS AND CHAIRS

NOTE:

All of the various Parlor pieces illustrated on this page are shipped direct from our Chicago warehouse.

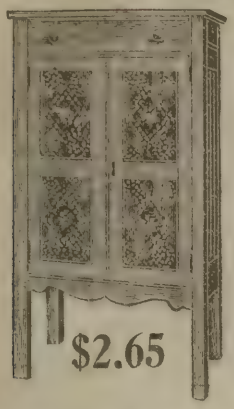
$18.00

$17.75

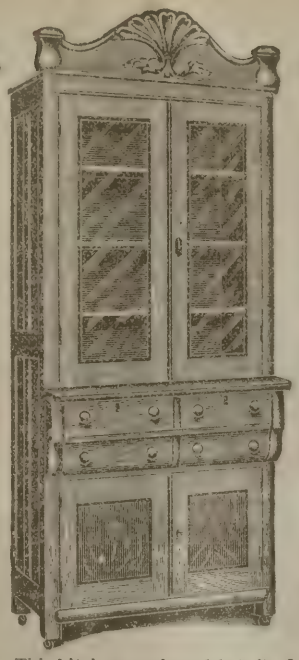
$17.75

No. 1-A-27. Two exceptionally high grade Parlor or Library pieces. Frames are extra heavy and massive, yet not overdone in the slightest respect. The general effect is as if the legs, arms, sides and top are in one continuous piece. Made of fine grain birch, hand rubbed and highly polished, mahogany finish. Broad seats; oil tempered springs. Filling consists of hair overlaying cotton felt. Upholstered with genuine leather. Diamond tufted back, ruffled front; beautifully carved. A few of these pieces will completely equip the Parlor or library. These pieces are valued at $30. Wgt., 80 lbs. each.
Price of Rocker.....$18.00 Price of Chair.....$17.75

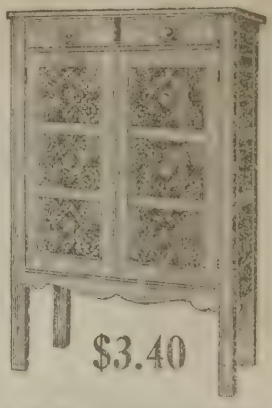
Kitchen Safes and Cupboards



See our fine lines of Kitchen Linoleum and Kitchen Ranges.



All Cupboards and Safes on this page are shipped from **point of purchase**, in Southern Indiana.



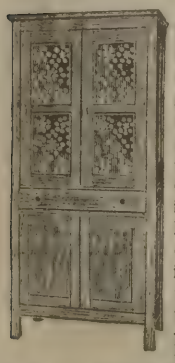
No. 1-A-187. This kitchen safe measures 58 inches high, 33 inches wide and is 16 inches deep (front to back). It is made of seasoned elm with golden gloss finish. Has double doors which are fitted with perforated tin panels. Has a full width drawer at top. Its accessibility is much readier than if it were nearer the floor. Sanitary leg base constructon. Has two panels in each side with removable shelf in cupboard. Shipped K. D. to prevent breakage in shipment and to secure lower freight rates. It is easily and quickly set up by anyone. We also have a few with wood panel doors. When ordering, state which is preferred. Weight, 95 lbs.
Price, each.....**$2.65**

Our immense growth is from our REMARKABLE VALUES.

No. 1-A-240. This kitchen cupboard is 7 ft. 6 in. in height and 3 ft. 4 in. in width. Has two glass doors, each measuring 36x12 in. It is made of selected hard wood, the entire front being plain solid oak. Finished golden. Cupboard contains three removable shelves which are adjustable and can be lowered or raised as desired. Has a figured back. Notice the double paneled door cupboard which is extra large and spacious and desirable as a receptacle for linen, etc. Has 4 drawers for silverware, cutlery, napkins, table covers, etc. Construction is first-class throughout. The legs being high, permit sweeping underneath without moving cupboard. The drawers, doors and panels are carefully and properly adjusted and will work easily without binding or sticking. Weight, 225 lbs. Price, each.....**$8.85**

$8.85 buys this fine, roomy, Oak Cupboard.

No. 1-A-209. Sanitary leg kitchen safe made of seasoned hardwood, 58 inches high and 39 inches wide, extra deep. Six perforated panels in the double doors. Substantial drawers in top for miscellaneous articles. Two removable shelves for utensils and dishes are fitted inside cupboard. Stock is seasoned and will not possibly warp or shrink. Golden oak finish. We have a few of these safes with glass doors instead of tin. If preferred, mention it when ordering, otherwise we will ship the tin doors. Weight, 100 lbs. Shipped K. D. from Southern Indiana.
Price, each.....**$3.40**



No. 1-A-1025. Kitchen safe, made of hardwood, golden gloss finish. Sanitary base, double door cupboard with one large drawer in base and a large double door cupboard in top containing two horizontal shelves. Upper doors are made with tin panels. It measures 5 feet 10 inches high by 2 feet 9 inches wide. Weight, 125 lbs.
Price **$4.15**
If wood panels are desired in preference to tin, advise us.

No. 1-A-211. Hardwood cupboard, golden finish. Height, 6 ft. 8 in., width 39 inches. Each end has three panels. Neatly ornamented throughout. Upper cupboard has two adjustable shelves also two good sized drawers. Extra high sanitary leg base. Weight, 150 lbs.
Price, each **$5.75**
Figured glass doors for the above cupboard can be furnished at 40 cents additional.
No. 1-A-211½. Same as above but with oak front and figured glass doors.
Price, each **$7.00**

No. 1-A-3000. A very carefully made hardwood cupboard, excellently finished in golden. It is 3 ft. 3 in. wide and 6 ft. 6 in. high. Has double door cupboard above and below. Upper cupboard is fitted with 2 adjustable shelves, and lower cupboard is fitted with one shelf. Two drawers in the center. Heavy leg base construction. All door panels and top are neatly ornamented. Weight, 125 lbs. Price, ...**$5.15**
No. 1-A-3001. Same as above with figured oak front panels, being finished in a handsome quartered oak effect. Price.....**$5.15**

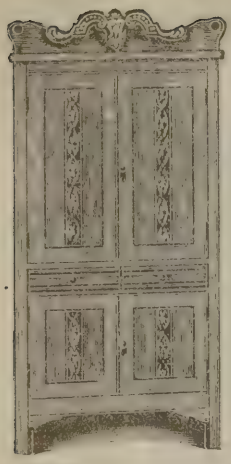
No. 1-A-1030. This kitchen cupboard is 6 feet 7 inches high by 3 feet 3 inches wide. It is made of hardwood, finished golden, properly and substantially put together, has deeply ornamented top, large glass doors, each of which measure 10 x 30 inches. Base contains one silver and linen drawer with a large double door compartment below. Weight, 135 lbs. Surprisingly inexpensive.
Price, each **$5.55**

No. 1-A-1029. Hardwood kitchen safe, golden gloss finish, well made throughout. Heavy panel ends and doors. Upper doors have wire fronts instead of glass. Height 5 feet 10 inches, width 3 feet 3 inches. If you wish an article for every day use, rather than for appearance and extra quality, this will please you. Weight, 135 lbs.
Price.....**$4.70**

No. 1-A-210. This cupboard was made by expert workmen and we recommend it as a very good and substantial article. Made of selected hardwood finished golden. Stands 79 inches high and is 40 inches wide, neatly carved top. Cupboard has double doors fitted with glass panes measuring 30 inches high and 13 inches wide. Two shelves which are adjustable. Base has a double cupboard, one shelf and two full length drawers in the projecting top, nicely paneled doors. Shipped K. D.
Price, each **$6.15**

No. 1-A-322. Kitchen cupboard. Height 87 inches. Width 54 inches. We recommend this design to all who wish something extra large. It is made of solid oak finished in rich golden gloss. Top is profusely carved. Has three drawers for silverware and linen, which project slightly from base. This is a modified Colonial style. Double thick glass, size 14x34 inches in each door. Fitted with strong locks. Heavy casters. Weight, 275 lbs.
Price, each.....**$13.75**

KITCHEN CABINETS



No. 1-A-93. High grade Kitchen cupboard, made of selected hardwood throughout, golden finish. Size: 6 ft. 6 by 3 ft. 3. Has three compartments in top and two compartments below. Also contains two drawers for silver, cutlery, linen, etc. Attractively embossed and ornamented top and panel doors, high sanitary legs. Weight, 125 lbs. Shipped K.D. from point of purchase St. Louis, Mo.
Price, each **$5.15**

No. 1-A-93½. Same as above with exception that entire front is made of figured oak. Weight, 131 lbs.
Price, each **$6.15**

No. 1-A-88½. This is an exceptionally attractive cupboard. Substantially made of hard wood, the entire front being of selected figured oak, finished all over in a rich golden gloss. 6 ft. 8 ins. high and 3 ft. 3 ins. wide. Upper compartment has two glass doors, the glass panes each measuring 12x28 ins. Two horizontal shelves. The lower compartment has double Royal quartered oak panel doors and one horizontal shelf. Two drawers with heavy brass pulls. Panel ends. Weight, 150 lbs. Shipped K. D. from our St. Louis warehouse.
Price **$6.60**
With figured glass doors as shown in illustration No. 1-A-94 ..... **$7.00**

No. 1-A-82. Kitchen Cabinet, figured oak front, finish golden all over, cupboard compartment, has double glass doors and four large shelves. Lower compartment has one shelf and 2 drawers. Each side has four large panels, projecting top attractively moulded upper parts, glass doors, height 90 inches, width 40 inches. Size of glass in doors, 12x32 inches. Weight, 165 lbs.
Price, each. **$8.10**

No. 1-A-82½. Same as above with figured glass doors, quartered oak lower door.
Price. **$8.50**

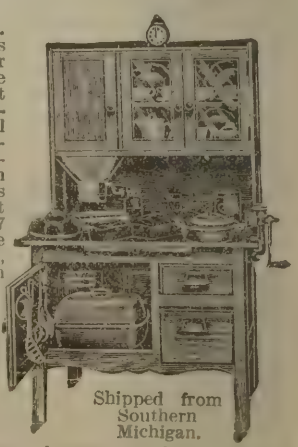
No. 1-A-94. High grade Kitchen Cupboard, made with a selected oak front, seasoned, hardwood panel sides; ornamented expanding top and ornamented doors, substantial leg. Contains one full width drawer and two half width drawers and lower drawer, has projecting front which adds materially to the appearance as well as usefulness of this cupboard. Double compartment door with quartered oak panels, glass doors measure 12x32 inches. The glass is handsomely figured in Japanese floral and bird design. Height, 90 inches, width 40 inches, weight 165 lbs. Shipped direct from point of purchase St. Louis, Mo.
Price, plain glass doors. **$8.75**
Price, fancy glass doors. **9.15**

No. 1-A-89. This high grade Kitchen Cabinet is made of selected maple stock with a 2 ply veneered back. Can be furnished in either natural or high golden gloss finish. Measures 46 inches long, 30 inches high and 26 inches front to back. Contains two flour or meal bins, one of which can be used for a bread box, two large drawers, and one bread board. Strictly high grade workmanship. Weight of cabinet complete, 120 lbs. Shipped direct from point of purchase, Southern Michigan.
Price of canopy alone **$1.85**
Price of cabinet complete. **5.15**

No. 1-A-92. The workmanship on this Kitchen Cabinet is of the highest character. We ship them direct from the point of purchase, Michigan. Cabinet is made of maple and other hardwood. The back consists of cross laid veneer. The workmanship throughout is unusually good being of full mortise and tennant construction, (no dowel pins.) Weight of base and top is 90 and 60 lbs., respectively. Canopy contians a small shelf four good size drawers for spices and miscellaneous articles, double glass door cupboard and horizontal shelf. Canopy is 43 inches long, 32 inches high and 10 inches front to back. Can be furnished in either natural finish or high golden gloss.
Price, base alone **$3.35**
Price, top alone **4.00**
Price, cabinet complete **7.35**

No. 1-A-88. First-class Kitchen Cabinet. Base is 46 inches long, 30 inches high and 26 inches from front to back. Weight, 90 lbs. Canopy is 43 inches long, 8 inches front to back and 30 inches high. Weight, 50 lbs. Weight of cabinet complete 140 lbs. Base contains a large flour bin, two large drawers, one full size cupboard for pots, pans, kettles, etc., also one bread board. The top is made of bass wood, which is the best and most sanitary wood for this purpose. Balance of cabinet is made of kiln dried maple. Constructed throughout in the best possible manner. Light natural or a high golden gloss finish. Sanitary leg base, paneled back. Canopy contains two large single door cupboards, two small and one large drawer for spices, etc. Shipped direct from Southern Michigan.
Price of canopy alone **$3.65**
Price of base alone **4.00**
Price complete. **7.65**

No. 1-A-90. This Kitchen Cabinet is made of selected maple stock, can be furnished in either natural or high gloss finish. Base weighs 90 lbs. and canopy 70 lbs. Base is 31 inches high, 42 inches long and 26 inches front to back. Canopy measures 38 inches high, 42 inches long and 10 inches front to back. Base has bass wood top and contains a large tilting flour bin, one large drawer, cupboard for cereals, pans, etc., and also a wide bread board. Canopy has veneered back which prevents warping, contains a large double door china closet and one dividing shelf, five assorted size boxes for spices, etc., two meal bins. The sides and doors are attractively paneled. A strictly sanitary kitchen piece and we recommend it very highly. Shipped direct from point of purchase, Southern Michigan.
Price, base alone. **$4.70**
Price, top alone. **5.20**
Price, cabinet complete. **9.90**

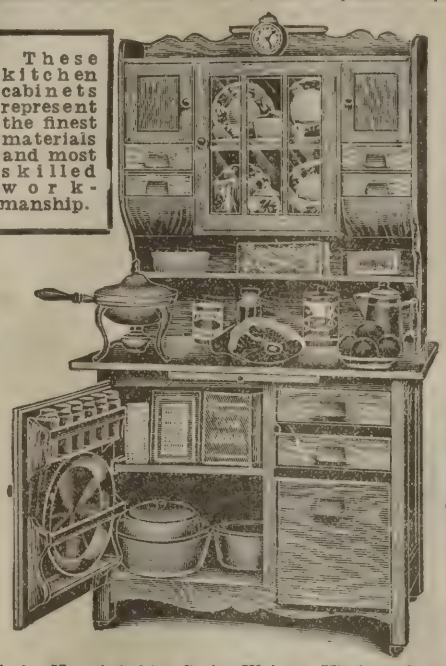


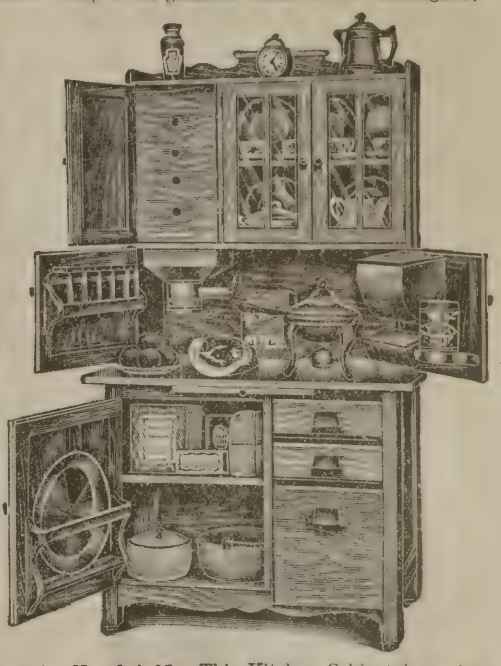
No. 1-A-91. Kitchen Cabinets classified under this number are shipped direct from point of purchase in Central Indiana. This design can be furnished only in satin walnut, satin gloss finish. Cabinet stands 5 feet 7 inches high, base is 42 inches long, 26 inches from front to back. Canopy is 37 inches high and 11 inches front to back. Has a white wood top base, containing one chopping board which can also be used as a bread board. Has two large drawers, one large compartment for cereals, pans, dishes, etc. Sanitary leg construction. Canopy contains large double glass door china closet, one horizontal shelf and a 50 lb. flour bin with sifter. Base weighs 100 lbs. and canopy 75 lbs. Total weight of complete cabinet 175 lbs. Nickeloid top can be furnished on base at $1.15 additional.
Price, top alone. ..... **$ 6.95**
Price, base alone. **5.55**
Price, cabinet complete **12.50**

HIGHEST GRADE KITCHEN CABINETS

The various Kitchen Cabinets illustrated and described on this page are shipped direct from point of purchase in Central Indiana. Please note that only the articles mentioned are furnished with these cabinets. Special attention is called to the beauty of the finish, the high quality of stock used in the construction, the superior workmanship and paneling, and most of all, the durability embodied in these cabinets, seldom found in the ordinary designs placed upon the market. The time and labor these cabinets will save a busy housewife, the many tiresome steps and the convenience assured will more than pay the cost in a short period of time. These cabinets are guaranteed to be absolutely perfect and of the highest quality throughout. You cannot duplicate these values anywhere at the low prices we quote. They're the greatest values we ever catalogued.

These kitchen cabinets represent the finest materials and most skilled workmanship.





No. 1-A-83. High grade Kitchen Cabinet, made of satin walnut, in a dull rubbed finish. Height, 5 ft., 8 in. Size of base, 42x26 ins. Depth, of canopy top, 11 ins. (front and back). This cabinet contains a 50-lb. capacity tilting flour bin, one large drawer, four spice cans and neat plate rack. Also a large cupboard space, a bread board and white wood top. Note china closet with double glass doors and horizontal shelf. This cabinet can be purchased complete, or base and canopy separately.

	Weight	
Price of Cabinet, Complete.	175 lbs.	$10.85
Price of Base, only.	100 lbs.	6.10
Price of Canopy Top, only.	75 lbs.	4.75

Can be furnished with nickeloid top, made of zinc and nickel plated, guaranteed non-corroding, at additional price of..... $1.10

No. 1-A-84. Satin Walnut Kitchen Cabinet, dull rubbed finish, height 6 ft. 3 in., width 42 in., depth (front to back), 26 in. Base contains a roomy cupboard with sliding shelf, six cans for spices, plate rack, two large drawers, 50-lb. flour bin, bread board and non-corroding nickeloid top. Canopy is 10½ inches deep, and contains two cupboard spaces, two small drawers, two tilting sugar bins, one back shelf, a large china closet with one horizontal shelf. A splendid bargain.

Price, of Base, only (weight, 110 lbs.)..... $ 8.60
Price, of Canopy, only (weight, 80 lbs.) 5.85
Price, of Entire Cabinet (weight, 190 lbs.). . 14.45

No. 1-A-85. This Kitchen Cabinet is made of satin walnut, dull rubbed finish. The base weighs 110 lbs., canopy 90 lbs. Extreme height 6 ft. 3 in., width 42 in., depth 26 inches. The base is the same as that described under No. 1-A-84, with the exception that the bottom drawer, instead of being used for flour, is equipped with an air tight lid and can be utilized as a bread box. Has non-corroding nickeloid top, tray rack, large cupboard space, sliding shelf, two large drawers and bread board. Canopy is 11 ins. deep, 42 ins. wide, and contains a double door china closet. Also, 50-lb. flour bin with sifter attached, sugar bin, six spice canisters and one coffee can, fitted to back of swinging door. When cabinet is not in use everything is out of sight.

Price, Base, only $8.60 Price, Canopy, only $ 8.35
Price, Complete Cabinet..... 16.95

No. 1-A-86. This high grade Kitchen Cabinet can be purchased complete, or base and canopy separately. We, however, advise the purchase of complete cabinet. It is made of satin walnut in a dull rubbed finish, height 76 inches, width 48 ins., depth 26 ins. Base contains a 50-lb. flour bin, two large drawers, bread board, two large cupboard spaces, sliding shelf, spice rack, six spice cans, and is fitted with non-corroding nickeloid top. Base, 125 lbs. Canopy is 11 ins. deep, contains large compartment with mirror door, small drawer below, two large glass door china closets, tilting meal or sugar bins and back shelf. Weight of canopy top, 100 lbs.

Price, Canopy, only $ 8.60
Price, Base only... 9.15
Complete Cabinet. 17.75

No. 1-A-87. Roomy Satin Walnut Kitchen Cabinet, dull rubbed finish, height 6 ft. 3 in., width 48 ins., depth (front to back) 26 ins. Base weighs when crated, 125 lbs. Canopy weighs when crated. 100 lbs. Base is very similar to that described under No. 1-A-86. Canopy top is 11 ins. deep, contains the following features: 50 lb. removable flour bin with sifter attached, two large glass door china closets, spacious sugar bin, six spice canisters, neat rack, one coffee can. Doors which open at the ends permit everything to be kept out of dust when not in use, as well as out of sight.

Price, of Base, only ..... $ 9.15
Price, of Canopy, only 9.15
Price, of Cabinet Complete 18.25

$18.25 Buys This Cabinet Complete.

We Offer Splendid Values in Dining Room Furniture

"Sanitax" Oak Refrigerators

The Greatest Bargains Ever Offered in High Grade Refrigerators

All the refrigerators on this page have the following special and in some cases patented features:

1. Are made of selected kiln dried white oak throughout.
2. Extra well finished with two coats of coach varnish, golden shade.
3. Simple lines throughout, no carving or other ornamentation to catch dirt and germs or to split off.
4. Galvanized steel lined throughout, both ice chamber and food compartments.
5. Removable, cleanable shelves and drain pipe, the shelves being so constructed as not to retard ventilation.

Any of these refrigerators will pay for its cost many times over by its economic consumption of ice. The insulation walls being arranged as follows: Outside solid kiln dried oak casings, one inch of dead air space, two heavy layers of absolutely air and water proof wool felt (which being made into layers cannot pack or settle as do charcoal and similar fillings). Galvanized steel lining. The superiority of this construction has been proven by thorough scientific tests.

The ventilation principle is simple yet perfect. The cold air from the ice chamber drops to the bottom of the refrigerator and then works upwards. Onions, cheese, fish, etc., can be put on the top shelf without contaminating milk, butter, etc. below. These refrigerators have been adopted as standards by many of the leading hospitals, cooking schools, etc. These refrigerators are guaranteed in every way as they were designed to be sold for double these prices and to the best grade of trade. The hardware, hinges, handles, etc., is nickel plated. All of these refrigerators and chests are substantially and attractively paneled. They are fitted with a patent drip trap which prevents water spilling on the floor when the pan is removed for emptying purposes. The front apron is hinged to permit ready removal of the drip pan.

All refrigerators on this page are in stock with white enamel provision chamber. This white enamel is baked on in three coats and is pure white. It has an air of cleanliness and sweetness.

Contains no poisonous substances and is entirely without odor. Price, $1.35 additional.

Compare our prices with any prices on ash, elm or other hardwood boxes.

READ THIS UNSOLICITED TESTIMONIAL.

HAMILTON, Ohio, June 25, 1900.

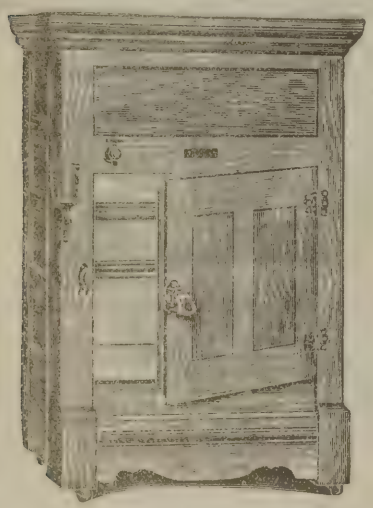
Chicago House Wrecking Co.,
Chicago, Ill.

Gentlemen:

The refrigerator I ordered from your house arrived safely several days ago and is now in use in my house. So far it has proven very satisfactory and I figure, after including freight charges, drayage, etc., that I have saved fully $6.00 by buying of you, as here the furniture houses and department stores ask from $18.00 to $20.00 for a refrigerator built in the style of the Sanitax I purchased from you, and then they do not have as good appearance as the Sanitax.

Thanking you for the prompt filling of my order and again assuring you that I think I received my money's worth, I remain,

Very truly yours,
Name furnished upon request. 4"

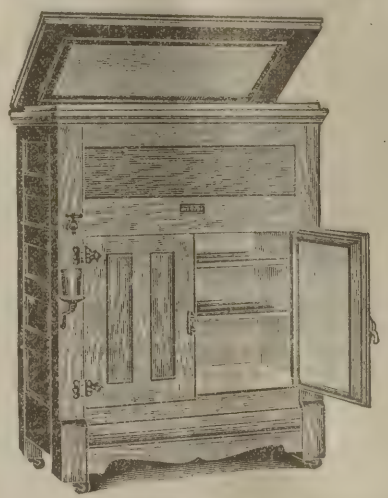


All the boxes described and priced in the following table have one door to provision compartment and are all of the top opening type.

All numbers ending with x are fitted with porcelain lined water coolers, nickel plated faucets and glass holders on the outside, as illustrated. They are all of the same measurements as the preceding boxes, with the exception of the ice chamber, which must necessarily be smaller on account of the cooler.

	Length, Inches.	Height, Inches.	Depth, Inches.	Weight, pounds.	Ice Capacity, pounds.	Price.
No. 1-A-101.	24	39	16	105	30	**$ 5.35**
Ice chamber	16	9	10	...	...	.....
Provision chamber	17	15	10	...	...	.....
No. 1-A-102x.	12	9	10	110	25	**7.55**
No. 1-A-103.	25½	40	17	115	50	**7.25**
Ice chamber	17½	10	11½	...	...	.....
Provision chamber	18½	16	11½	...	...	.....
No. 1-A-104x.	12	10	11½	125	35	**9.10**
No. 1-A-105.	28½	43	15½	140	75	**9.25**
Ice chamber	20½	11	13	...	...	.....
Provision chamber	21½	18¼	13	...	...	.....
No. 1-A-106x.	15½	11	13	150	60	**11.10**
No. 1-A-107.	31½	45	19	155	100	**10.25**
Ice chamber	23½	11	14	...	...	.....
Provision chamber	25	19½	14	...	...	.....
No. 1-A-108x.	18	11	14	165	75	**12.15**
No. 1-A-109.	31½	48	20	195	125	**11.15**
Ice chamber	25	13¾	15	...	...	.....
Provision chamber	24½	24	15	...	...	.....
No. 1-A-110x.	18	13¾	15	210	100	**13.10**

All of the refrigerators with water coolers have measurements of ice chamber only given.



The following two refrigerators have double doors and are of the top opening type.

No. 1-A-111. Length 38 in., height 48 in., depth 20 in., weight 240 lbs., ice capacity 150 lbs. Price..... **$14.75**

No. 1-A-112x. Length of ice chamber 25 in., height 13½ in., depth 15 in., weight 225 lbs., ice capacity 125 lbs. Same as No. 1-A-111, but with water cooler, etc. Price..... **$16.80**

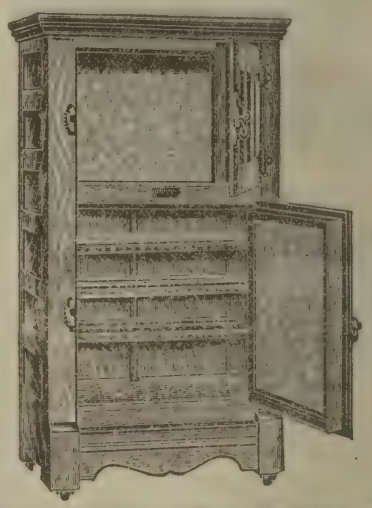
The following ice chests are of the most desirable sizes. They are solid oak, finely finished. Are fitted inside with provision chambers. For preserving food in bottles, sealed cans or wrappers, where there is no opportunity for mixing of odors, we recommend these as convenient and economical receptacles. With the provision chamber removed the ice capacity is about double that given below.

No. 1-A-117. Length 28 in., height 24 in., depth 17 in., weight 80 lbs., ice capacity 50 lbs. Price..... **$3.70**

No. 1-A-118. Length 31 in., height 26 in., depth 21½ in., ice capacity 100 lbs., weight 110 lbs. **$5.25**

No. 1-A-119. Length 35 in., height 30 in., depth 23½ in., ice capacity 150 lbs., weight 140 lbs. **$8.10**

No. 1-A-120. Length 38¾ in., height 34 in., depth 25 in., ice capacity 200 lbs., weight 190 lbs. **$8.75**



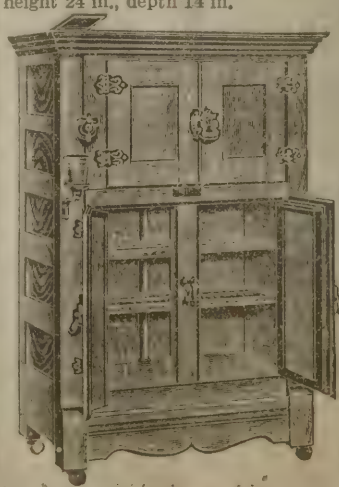
These are commonly known as apartment house boxes, the ice being put in at front instead of the top.

No. 1-A-121. Length 25 in., height 50 in., depth 18 in., weight 145 lbs., ice capacity 60 lbs. Price..... **$9.25**

Ice Chamber: Length 17½ in., height 16½ in., depth 13½ in. Provision Chamber: Length 18½ in., height 19 in., depth 13½ in.

No. 1-A-113. Length 28 in., height 55 in., depth 19 in., weight 175 lbs., ice capacity 90 lbs. Price..... **$10.75**

Ice Chamber: Length 20½ in., height 17 in., depth 14 in. Provision Chamber: Length 22 in., height 24 in., depth 14 in.



No. 1-A-114. Length 31½ in., height 57 in., depth 20 in., weight 225 lbs., ice capacity 125 lbs. Price, **$13.75**

No. 1-A-115. Length 35½ in., height 54½ in., depth 20 in., weight 245 lbs., ice capacity 150 lbs. Price, **$16.00**

Ice chamber. Length 26½ in., height 17 in., depth 15 in. Provision Chamber: Length 29 in., height 23 in., depth 15 in.

No. 1-A-116x. Length 22 in., height 17 in., weight 260 lbs., ice capacity 125 lbs. Price..... **$18.15**

DINING TABLES

WORTH BUYING AND OWNING!!! STANDARD GRADE.

Each and every one guaranteed against flaws in materials and construction.

OAK BREAKFAST TABLE.

1-A-115. A solid-oak breakfast table, golden gloss finish. It takes up but very little room when not in use and is instantly and easily converted into a table measuring 38 x 50 inches. Well finished and finely put together with bolted corner legs. Weight, 70 lbs.

Price $3.10

NEWLY IMPROVED.

1-A-116. This table is one which we especially recommend to parties requiring a well made, neat and serviceable article for every day use. The top is 42 inches wide; the legs are deeply fluted and are 3 inches thick. They fasten into the frame with a steel screw, are perfectly rigid and will not weaken after a few months' service. This table will positively give you many years more service than the ordinary table of similar appearance but of different construction. Solid figured oak, golden finish. Weight, 130 pounds.

	6 ft.	8 ft.	10 ft.	12 ft.
Price, Square Top	$5.00	$6.00	$7.00	$8.00

Round Top on any size, 75c extra.

NEAT AND TASTY.

1-A-117. A desirable 5 leg reinforced table 42 inches wide and made of perfectly seasoned selected oak, finished a high golden gloss. The legs measure 3 inches in diameter and are neatly fluted. Clean-cut carvings on the stretchers. A thoroughly excellent value. Weight, 180 lbs.

	6 ft.	8 ft.	10 ft.	12 ft.
Price.....	$5.65	$6.75	$7.85	$8.95

DROP LEAF EXTENSION TABLE.

1-A-118. A neat, attractive and substantial drop leaf extension table. It is specially designed to give plenty of seating room without taking up much space when not in use. When open the top measures 42 x 54 inches. Golden finish; solid oak throughout. Weight, 110 lbs.

	6 ft.	8 ft.	10 ft.
Price.....	$4.70	$5.70	$6.70

EXCEPTIONALLY ATTRACTIVE.

1-A-119. A thoroughly desirable 42 inch solid golden oak table. Improved construction throughout. Very attractive fluted screw legs, 3¼ inches in diameter. The entire table is nicely finished. We recommend this table as worth many dollars more than the usual table sold for these prices. Weight, 170 lbs.

	6 ft.	8 ft.	10 ft.	12 ft.
Square top, price....	$5.60	$6.80	$8.00	$9.20

Round top on any size 75c additional.

1903 MODEL.

1-A-120. A most desirable, exceptionally well made and finished golden oak table. 6 legs; 42 inch top; claw feet. The extra center leg and the cross reinforcements make it doubly strong and attractive. We especially recommend this table in the extra lengths. The legs are deeply carved and fluted and are of an improved screw type; of a better quality and finish than ordinarily enters into this type of table. Hand carved brackets. Shipping weight 180 pounds.

	6 ft.	8 ft.	10 ft.	12 ft.
Price.....	$6.45	$7.55	$8.65	$9.75

A SERVICEABLE "STAND-BY."

1-A-121. Well seasoned and neatly finished, 42 inch golden oak extension table. The design is an old one, but several new features in its construction make it more rigid and serviceable than other styles. Two sizes only.

5 ft. (without center leg.) Weight, 70 lbs.	$3.75
6 ft. (as illustrated.) Weight, 115 lbs....	4.35

"PERFECTION" GRADE.

1-A-122. This table is extraordinarily large and massive throughout. This not only makes it exceptionally strong and serviceable, but adds much to its attractiveness. The stock is thoroughly seasoned, figured oak throughout. The legs are of improved screw construction, deeply grooved and 6 inches thick. The top is 42 inches wide, very heavy round corners, attractively framed in with a corrugated box base. To be appreciated, this table must be seen. Shipping weight about 240 pounds.

	6 ft.	8 ft.	10 ft.	12 ft.
Square top.....	$9.00	$10.00	$11.00	$12.00
Round top.....	9.75	10.75	11.75	12.75

INCOMPARABLE VALUE.

1-A-123. A new and very attractive pattern in a 42 inch selected figured golden oak, heavy pedestal table. This table is strongly constructed and a high grade and attractive article; material and finish being all one could ask for. You will positively be well satisfied with its general excellence and elegance. Shipping weight, 160 lbs.

	6 ft.	8 ft.	10 ft.	12 ft.
Price, square.....	$8.85	$10.00	$11.15	$12.30
Price, round.....	9.50	10.65	11.60	12.95

DINING TABLES

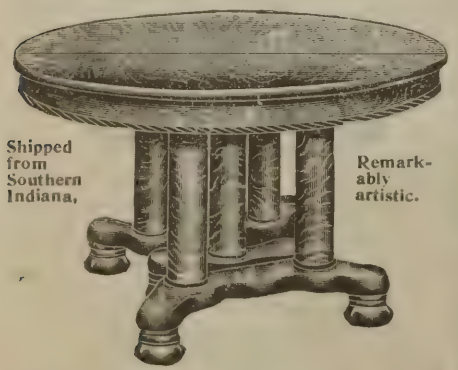
No. 1-A-334. This excellent table is finished in a rich golden gloss. The legs are four inches thick and are very attractive. It is an exceptional value and will merit your entire approval.

Plain Oak Top	6 ft.	8 ft.	10 ft.	12 ft.
Price, 45x45	$7.00	$8.25	$9.50	$10.75
" 48x48	7.75	9.50	11.25	13.00
Quartered Oak Tops				
Price, 45x45	$ 8.50	$ 9.75	$11.00	$12.25
" 48x48	10.00	11.75	13.50	15.25

Round top, $1.00 additional.

No. 1-A-316. Colonial dining table of absolutely first quality, constructed along up-to-date lines. Pedestal is 10 in. in diameter and octagonal in shape. Weight, 165 lbs.

Plain Oak Tops.	6-foot	8-foot	10-foot
42 inches	$9.00	6 ft. only.	6 ft. only.
45 inches	9.50	$10.75	$12.00
48 inches	10.25	12.00	13.75
Quarter-sawed Oak, Polished Tops.			
42 inches	$10.25	6 ft. only.	6 ft. only.
45 inches	11.00	$12.25	$13.50
48 inches	12.50	14.25	16.00



No. 1-A-361. Colonial dining table. The general appearance is elegant, as the columns are heavy (4 in. in diameter), and entirely made of selected quarter sawed oak, showing the wood to the best advantage and highly polished. Early English, Antwerp, antique, golden or weathered oak as preferred. Weight, 195 lbs.

Plain oak tops, $1.75 less. Square top, 50 cents less.

45 inch top	$15.00	$16.25	$17.50	$18.75
48 " "	16.50	18.00	19.50	21.00

No. 1-A-333. This table is made of golden oak finished a rich golden. Has a heavily moulded box rim, 4 in. legs. Made by factory of national repute. Weight varies from 145 to 240 lbs.

Plain Oak	6 ft.	8 ft.	10 ft.	12 ft.
42x42	$7.50	$ 8.50	$ 9.50	$10.50
45x45	8.00	9.25	10.50	11.75
48x48	8.75	10.50	12.25	14.00
Quartered Oak Top.				
42x42	$ 8.75	$ 9.75	$10.75	$11.75
45x45	9.50	10.75	12.00	13.25
48x48	11.00	12.75	14.50	16.25

Round top $1.00 extra.

No. 1-A-315. Beautiful Colonial table, furnished in Early English, weathered or golden oak finishes. Pedestal is 10 inches in diameter. Square top 50c less.

Plain Oak Tops	6 Ft. Ext.	8 Ft. Ext.	10 Ft. Ext.
45 inches	$13.00	$14.25	$15.50
48 inches	13.75	15.50	17.25
Quarter Sawed Oak Tops.			
45 inches	$14.50	$15.75	$17.00
48 inches	16.00	17.75	19.50

No. 1-A-13. A handsome, most substantial and desirable hand carved Colonial table. Although it is very massive and ornate, it is not overdone in any way, and will please any one of culture. All carving is hand work. Made of American quartered oak, golden finish. Weight, about 200 lbs.

	6 Ft.	8 Ft.	10 Ft.	12 Ft.
45 inch top, prices	$15.50	$19.00	$21.00	$22.50
48 inch top, prices	16.75	20.25	22.25	23.75

No. 1-A-345. This finely constructed table, has massive and beautifully veneered legs in fluted design. It is made of figured plain oak, in a rich golden gloss finish. Weights vary from 140 to 225 lbs.

Plain oak top	Leg diam.	6 ft. exten.	8 ft. ext.	10 ft. ext.	12 ft. ext.
42x42	4 in.	$ 7.75	$ 8.75	$ 9.75	$10.75
45x45	4 in.	8.50	9.75	11.00	12.25
48x48	4 in.	9.50	11.25	13.00	14.75
Quartered Oak Top.					
42x42	4 in.	$ 9.00	$10.00	$11.00	$12.00
45x45	4 in.	10.00	11.25	12.50	13.75
48x48	4 in.	11.25	13.00	14.75	16.50

No. 1-A-12. These tables are massive, rich and elegant and were made by one of Ohio's finest factories. No illustrations or descriptions can do them justice; they must be seen to be appreciated. We guarantee to surprise you with their general excellence and elegance. The patent pedestal locking device prevents the large column from spreading when closed. Golden finish, beautifully figured American quarter-sawed oak. Weight 180 lbs.

	6 Ft.	8 Ft.	10 Ft.	12 Ft.
Prices, 45 inch top	$12.00	$14.50	$16.50	$18.50
Prices, 48 inch top	13.00	15.50	17.50	19.50

No. 1-A-14. Here is a table which combines elegance, richness and individuality. It is massive and beautifully hand carved; the legs being of dragons' head and claw feet design. Every detail of this table is perfect, including the wood which is the finest American quartered oak, highly polished all over. Patent locking device on top and pedestal. Shipping weight about 190 pounds.

	6 Ft.	8 Ft.	10 Ft.	12 Ft.
Prices, 45 inch top	$13.75	$16.50	$18.50	$20.50
Prices, 48 inch top	14.75	17.50	19.50	21.50

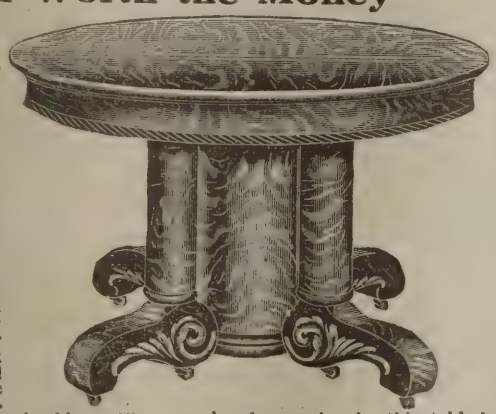
Latest Style Dining Tables

A Splendid Table

No. 1-A-20. This Colonial pattern Dining Table represents the most exquisite workmanship as well as the most perfect construction and most beautifully grained stock. It is made of selected quarter sawed oak finished in a rich shade of golden. It is hand rubbed and polished to the highest luster. It is utterly impossible to get a better table at this price elsewhere. Has dividing pedestal, 10 in. in diameter, equipped with best quality lock. Has a large platform and substantial base. The pedestal is cross band veneered so as to show up the oak in all its rare beauty We also have a few of these tables in American quartered oak, finished golden. There are about thirty tables in the lot, made of genuine striped Cuban mahogany, finished veneered. These tables weigh from 225 to 300 lbs. Many of these tables are sold in retail furniture stores at from $40.00 to $50.00.

WOOD	Width of Top	Price 6 ft. Extension	Price 8 ft. Extension	Price 10 ft. Extension	Price 12 ft. Exten.
American Quartered Oak	45 in.	$14.00	$15.75	$17.50	$19.25
American Quartered Oak	48 in.	14.75	16.50	18.25	20.00
Genuine Quartered Oak	45 in.	16.50	18.25	20.00	21.75
Genuine Quartered Oak	48 in.		19.75	22.00	24.25
Genuine Mahogany	45 in.	21.00	22.75	24.50	26.25
Genuine Mahogany	48 in.		24.50	26.75	29.00

Well Worth the Money



No. 1-A-22. This Dining Table is constructed so that it is all times when extended as attractive as when closed. The center pedestal is 9 in. in diameter and is of solid construction and non-dividing. The Colonial legs are connected with four smaller pedestals, each of which measure 4 in. in diameter. The material used in the construction of this table is absolutely the finest quarter sawed oak, hand rubbed and polished to a mirror-like brilliancy and finished in a rich shade of golden. The cross band veneering in this table is the richest and rarest grain to be found. Table is ornamented with rich, deep, clean cut, hand ornamentations as illustrated. Weighs from 175 to 240 lbs.

Width	Price, 8 ft. Extension	Price, 10 ft. Extension	Price, 12 ft. Extension	Price, 14 ft. Extension
48 in.	$23.00	$24.75	$26.50	$28.25
52 in.	24.00	26.00	28.00	30.00

No. 1-A-24. This beautiful Dining Table is made in an attractive column style, impossible of description or adequate illustration. It is an article that must be seen to be appreciated. Is made of quarter sawed oak finished in rich shade of golden. The workmanship and finish is as nearly perfect as most workmen can turn out. The pedestal is 12 in. in diameter, supported on a heavy platform base with molded edges. The clawfeet are richly hand carved. Note the four massive scroll columns with deep hand carvings. They extend from feet to the top of the table. This is a table that was made to sell for 40 to 50% more than the price quoted below.

Width of Top	Weight	Price, 8 ft. Extension	Price, 10 ft. Extension	Price, 12 ft. Extension	Price, 14 ft. Ext.
48 in.	265 lbs.	$31.00	$32.75	$34.50	$36.25
52 in.	300 lbs.	32.00	34.00	36.00	38.00

An Exceptional Value

No. 1-A-21. The tables classified under this lot number can be furnished in either quarter sawed, white oak or Cuban striped mahogany. The tops are made of specially selected wood and because of their choice graining, show up the beauty of the wood to perfection. The construction of this table represents the highest degree of skilled workmanship. Note the box rim around top. The pedestal is 12 in. in diameter and is of the Colonial type. It is broad and heavy and carefully veneered, so as to show the matchless graining of the wood and of mahogany with the beautiful figured effects in the top. The legs are massive and hand carved. The entire table is hand rubbed and polished to a mirror-like brilliancy. This is a table that you seldom get at the low price we are quoting.

WOOD	Width of Top	Price, 8 ft. Extension	Price, 10 ft. Extension	Price, 12 ft. ext.
Quartered Oak	48 in.	$25.60	$27.80	$30.00
Quartered Oak	54 in.	27.80	30.00	33.35
Quartered Oak	60 in.	31.10	34.40	37.75
Mahogany	48 in.	30.00	32.25	34.40
Mahogany	54 in.	33.35	36.00	38.75
Mahogany	60 in.	37.75	41.00	44.25

No. 1-A-23. Each and every detail in the construction of this high grade table is as perfect as skilled workmanship can make it. It is made of quarter sawed oak, hand rubbed and polished to the highest luster. Tables in this lot consist of three different finishes, golden oak, weathered oak and Early English. When ordering, state which you prefer. This design is the finest and highest priced table turned out by one of the best known factories in Indiana. It is of an exclusive pattern and is distinct and stylish in appearance. If you want a beautiful as well as impressive piece of dining room furniture, order this table at once. The pedestal is 14 in. in diameter and is supported with heavy hand carved legs. Has an extra heavy top with a cross band veneered rim, having heavy moulding at edge. It is fitted with a patent locking device which insures perfect joint at top and prevents sagging in center when table is extended. Weight varies from 200 to 350 lbs. depending on width and length.

Width of Top	Price, 8 ft. Extension	Price, 10 ft. Extension	Price, 12 ft. Extension
52 in.	$25.00	$27.00	$29.00
60 in.	32.50	35.25	38.25

Latest Design

No. 1-A-25. This massive Dining Table is one of the prettiest designs of its kind ever catalogued by us. It is made of quarter sawed oak, finished in a rich shade of golden. It is hand rubbed and polished to a mirror-like brilliancy. Center pillar is 11 in. in diameter, and the four outside columns are 4 in. in diameter. Note the heavy roll base. Large scroll legs which are mounted on ball and claw feet. The carvings represent the finest handwork of experts. They are clean, deep, artistic and properly proportioned. This is a table that is seldom sold under $55.00. You will find it only in the most exclusive and highest priced furniture stores. The top is 52 in. in diameter. Weight, 300 lbs.

Price, each, 8 ft. extension.. $33.00 Price, each, 12 ft. extension.. $37.00
Price, each, 10 ft. extension.. 35.00 Price, each, 14 ft. extension.. 39.00

SIDEBOARDS

LATEST DESIGN

No. 1-A-418. This massive Solid Golden Oak Sideboard is 79 in. high, 42 in. wide, 20 in. deep (front to back). The workmanship throughout is of high character. This is an artistic piece designed for those who want a substantial and serviceable article at a moderate price. Those who do not wish to pay more than this price will find this an exceptional offer, an article that will give the utmost satisfaction. French plate mirror 14x24 inches. Base has three drawers and two compartments for table cloths and other linen. Right hand upper drawer is lined for silverware. All drawers are dovetailed and work smoothly without binding or sticking. The brass handles are neatly designed. All drawers fitted with substantial strong locks. Equipped with large easy running casters. Weight, 150 lbs.

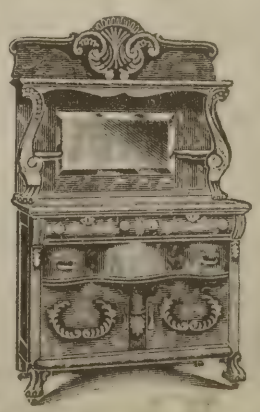
Price.....**$8.95**

No. 1-A-417. This handsome Sideboard is made of selected white oak, with a genuine quarter sawed oak front, finely finished, a rich golden. The extreme height is 80 in., length is 46 in., and the width 24 in. Base contains three serpentine front drawers, one of which is lined for silverware. Each drawer is fitted with brass hardware and strong substantial locks. The double door linen compartment has neatly ornamented scroll design ornamentation. French beveled plate mirrors of the finest flawless glass. Lower one measures 28 in. wide and 16 in. high, upper one 12 in. wide and 10 in. high. Wt. 185 lbs. Price.....**$14.95**

BEAUTIPUL TYPE

No. 1-A-422. This Sideboard is neatly adorned with deep, clean cut, hand carved ornamentations. It is a very pleasing design, and will add wonderfully to the attractiveness of any dining room. It stands 7 ft. high and is 46 in. wide, the depth (front to back) being 23 in. Back is fitted with a large, extra quality French beveled plate mirror, 24 in. wide and 14 in. high. Note the shape molded edge, ornamented shelves at each side of the mirror. Base contains two swell front drawers, one of which is partitioned and plush lined for silverware. Has a large extra drawer and two paneled door linen compartments below. It is made of figured plain oak, finished golden. The drawers and all interior parts represent the best workmanship. The hardware used is of the highest character. Has large paneled ends and decorated door panels. Weight, 200 lbs.

Price.....**$10.15**



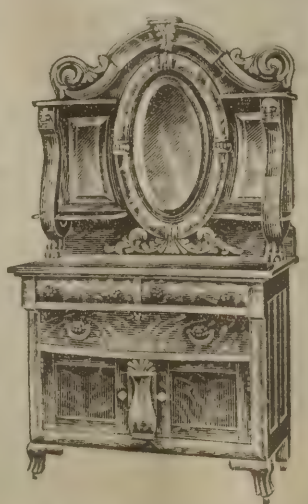
No. 1-A-421. This massive Sideboard is a strictly brand new design. The workmanship throughout is first class. The entire front is made of selected quarter sawed oak, finished golden. Length 46 inches, depth 23 inches (front to back). The top is fitted with extra wide French beveled plate mirror, size 24 x 14 in. Base contains three large, deep drawers, one plush lined for silverware. Large linen compartment beneath. Profusely adorned with rich design, clean cut deep carvings and mouldings. The character of the cabinet work is such as you will find in costlier designs. Drawers are smoothly finished inside and out. An attractive addition.

Price.....**$12.25**

SOMETHING DIFFERENT

No. 1-A-423. A very pleasing and generally excellent sideboard 44 inches wide and 22 inches front to back, and fitted with a French beveled plate glass 24 inches wide and 14 inches high. The feet are of claw design, hand carved. The upper drawers have serpentine fronts, below which are two large cupboards, beautifully decorated with hand carved wreaths. The lower drawer is large and roomy. The partition between the two cupboards has a heavy roll to correspond with that on the base. The Corinthian columns supporting the top shelf are attractively hand carved and end in claw feet and a small shelf either side of the mirror. The extreme top has a broad moulding and a large clearly cut, carved ornament in the center. The ends are double paneled. The choicest and large figured quarter sawed oak is used throughout, the columns being of cross band veneer to show the flaky graining. The high grade finish is of a rich golden color.

Wt. 210 lbs. Price.....**$15.90**



No. 1-A-420. This American quarter-sawed oak Sideboard is finished in a rich shade of golden. It measures 48 in. in width and 23 in. in depth (front to back). It is 7 ft. high. It is profusely ornamented with rich, deep, clean cut hand carvings and heavy rolls; has plush lined drawer for silverware, double door compartments below. Top section has three handsome panel French beveled plate mirrors. The oval one measures 28 x 16 in. and the square ones 17 x 10 in. An exceptionally attractive bargain.

Price.....**$23.50**

BEST EVER OFFERED

No. 1-A-424. If you want an exceptionaly fine appearing Sideboard, make no mistake but order this design. It is made of the finest quarter sawed oak and finished golden. It is hand rubbed and polished to the highest luster. Top is 46 in. wide and 23 in. deep (front to back). The oblong French beveled plate mirror is of the finest quality and measures 30 in. wide and 18 in. high. It is utterly impossible to clearly conceive the beauty of this sideboard by accompanying picture, as illustration only shows a rough outline. It is an article that will certainly please the most critically inclined. Retail stores sell this design at double our price. Base contains two serpentine front drawers, large linen compartment and a full length drawer below. Sides, top and base have heavy quarter sawed rolls. Is richly carved throughout. Wt. 210 lbs. Price.....**$17.00**

No. 1-A-419. This solid oak Sideboard is finished in a rich golden gloss. Top is 42 inches long and 23 inches wide. Extreme height is 82 inches. Base contains two good sized drawers, one of which is lined for silverware. Below these drawers is a serpentined front drawer, under which is a double door linen compartment. The entire front of this piece is veneered with quarter sawed oak. It is profusely ornamented with deep hand carvings. French plate mirrors measure 26x16, and 10x10 inches respectively. It was made by one of the most prominent manufacturers in this country, a thoroughly good article in every way and a decided bargain at the price. Weight, 150 lbs.

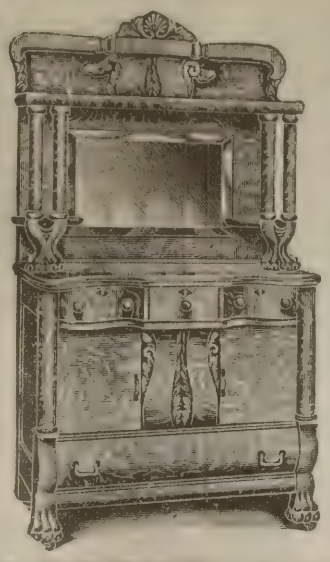
Price.....**$12.95**

Sideboards

No. 1-A-390. This high grade Sideboard is made of selected figured oak throughout and has a quarter sawed oak front, finished in a rich shade of golden. Profusely adorned with deep clean cut hand carved ornamentations, It measures 84 inches high, 48 inches long and 24 inches wide. Has a large French bevel plate mirror measuring 16x28 inches and two smaller mirrors, same quality plate, each 10x17 inches, The entire drawer construction is full dovetailed, all interior parts being smoothly finished, so that drawers positively will not bind, warp or stick. All drawer fronts are of the full serpentine type with shaped top to correspond. Upper right hand drawer is plush lined for silver ware. All drawers have good locks and heavy cast brass handles. Weight, 200 pounds.

Price, each $22.25

Shipped from Central Indiana.



No. 1-A-344. This magnificent quarter sawed oak Sideboard, is one of the most beautiful designs manufactured this year. It is hand rubbed and polished to a mirror-like brilliancy and is finished in a rich shade of golden. Top is 42 inches wide and 23 inches deep (front to back). Top contains three drawers, the center one being partitioned and plush lined for silverware. Note the two serpentine front drawers and spacious linen compartment below. The heavy columns at sides correspond in outline with the pillar supporting the shelf over the mirror. Has beautifully executed, deep clear cut, hand carved ornamentations. Weight, 225 lbs.

Shipped from Southern Indiana.

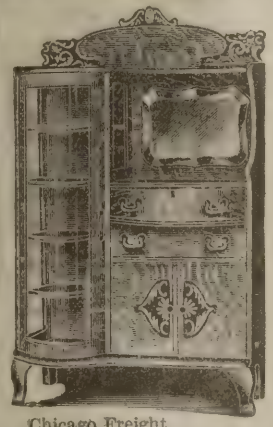
Price, each..... $20.75

No. 1-A-389. This extra large Sideboard is made almost entirely of quarter sawed oak, finished in a rich shade of golden. It is an unusualy massive piece and measures 82 inches high and 46 inches long It is 24 inches deep (front to back). It has an extra large French beveled plate mirror, 28x16 inches. Note the hand carved claw feet and deep hand carved ornamentations which so profusely adorn this magnificent piece of Dining Room Furniture. Has 3½ inch columns which are cross band veneered, showing up beauty of grain to a special advantage. All drawers have full swell front. The upper right hand one is plush lined for silverware. Has a full length shelf 25 inches above the top. Note the two good size shelves at each side of mirror. Construction is the very finest throughout and this is an article which positively will not warp nor will the drawers stick or loosen. Weight, 195 lbs.

Price, each..... $17.35

No. 1-A-389½. Same as above but in Early English finish..... 17.35

Shipped from Southern Indiana.



No. 1-A-268. One of the newest and handsomest, as well as most serviceable piece of Dining Room Furniture that can be purchased. This beautiful combination Buffet and China closet is made throughout of the very finest quarter sawed white oak, finished in a rich shade of golden. It is hand rubbed and polished, to the highest possible luster. Note the china compartment on the left side, which has four adjustable shelves and curved door which is fitted with double thick bent glass. Both sides are of glass, showing dishes from all points of view. The buffet section contains two door compartments and two large drawers. The upper drawer is full swell in design and is plush lined for silverware. Extra quality French beveled plate mirror, size 20x14 inches Outside measurements of cabinet are 46x20 inches. Design is profusely ornamented with rich hand carvings. Weight, 200 lbs.

Price, each..... 22.75

Chicago Freight.

No. 1-A-297. This high grade Side Board is a design that will please the most fastidious. The top is 48 inches wide and 23 inches deep (front to back). Design early Colonial. Note the heavy roll on top, base and at sides to correspond with the columns supporting back and top shelf. Hand carved claw feet. Base contains three full swell front drawers for linen, etc., one of which is plush lined for silverware. Has two swinging door compartments with a deep drawer at bottom. Extra quality French beveled plate mirror, size 32x18 inches. Ornamentation is of solid wood hand carving and is one of the prettiest effects ever executed. Is made of quarter sawed oak finish golden and hand rubbed and polished to the highest luster. Absolutely first-class in every respect. Weight, 235 lbs.

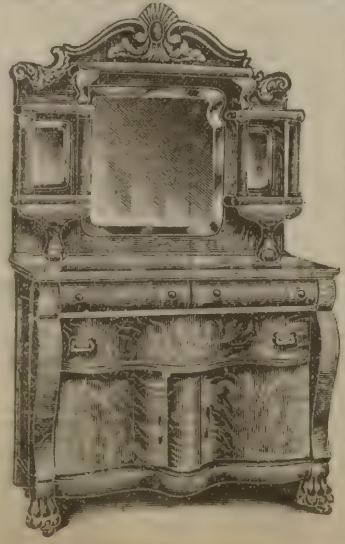
Price, each ..... $ 24.15

Shipped from Southern Indiana.

No. 1-A-422. This massive Side Board is one of the latest designs manufactured this year. It is made of quartered sawed oak finished in a rich shade of golden. It is water rubbed and hand polished. Base is 50 ins. long and 24 ins. wide. Base contains two large drawers, one of which is plush lined for silverware. Has a double glass door linen compartment and a full width drawer at the bottom. Nicely fluted columns which end in massive hand carved claw feet and heavy moulding extends about the full length of the base bringing this part out in harmony with the back. The French beveled plate mirror is 18 ins. wide and 40 ins. high. Has Corinthian style columns supporting shelf and is profusely ornamented with rich deep clear cut hand carved ornamentations. Weight, 325 lbs.

Shipped from Southern Indiana.

Price, each..... $26.75

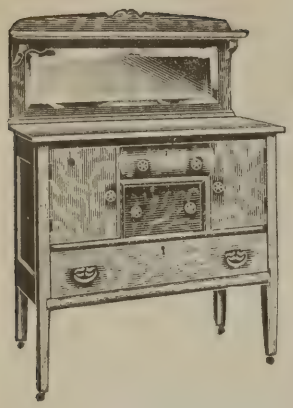


No. 1-A-343. This masterpiece of modern craftmanship is one of the finest designs on the market. This statement will be borne out after you have seen the piece itself. It is 50 per cent handsomer than you can determine from illustration shown herewith. It is 50 ins. wide, 24 ins. deep, (front to back) and has a massive top containing three French beveled plate mirrors, the center one being 30 ins. wide, and 24 ins. high and the other two at back of shelves measure 12x8 ins. The base has serpentine shaped front doors which are divided by an immense pillar. Base has partitioned plush lined drawer for silverware, spacious lined compartment and other features which space does not permit our description of. We guarantee it to be an article to please the most fastidious. Weight, 300 lbs.

Shipped from Southern Indiana.

Price, each..... $32.00

HIGH GRADE BUFFETS



No. 1-A-335. This buffet is constructed of American quartered oak finished in a rich shade of golden. Top is 42 inches long and 22 deep, front to back. French beveled plate mirror is 36 inches long and 10 inches high. The base contains a center dust proof drawer lined for silverware, below which is a sunken front door with double swinging door cupboard which is a spacious receptacle, very convenient for linen, etc. The cabinet work, drawer construction, and finish are first class and it is an article we can recommend in every way. We have but a few of these buffets left and it is advisable that you send us your order at once. Weight, 125 lbs.

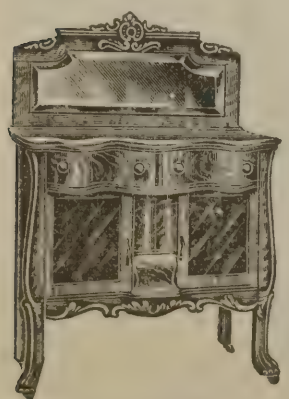
Shipped from Southern Indiana.

Price, each.....**$9.55**

No. 1-A-265. This extra size buffet has a massive top 48 inches in length and 21 inches in depth front to back. The base contains one upper drawer and a projecting top to keep out the dust, plush lined for silverware. The drawer below has a sunken panel and moulded ends to contrast with the upper drawer. Has hinged doors with automatic locks, beautifully ornamented with diamond shaped glass, large linen compartment, has three French beveled plate mirrors, the center one being 24 x 10 inches and the end ones being 10x10 inches. The entire front, back, top and ends are of plain figured oak. Height of this buffet is 52 inches. Can be furnished in Early English, golden or weathered oak finished. Weight, 175 lbs.

Shipped from Central Indiana.

Price, each.....**$15.65**



No. 1-A-264. This magnificent buffet is made of the highest quality quarter sawed oak, finished in a rich shade of golden, is hand rubbed and polished to the highest luster. It has a shapely top 42 inches in length and 22 inches in depth front to back. 2 drawers in base, one plush lined for silverware. Also two commodious compartments for napery, linen, etc. These compartments are fitted with frosted glass doors, with coped moulding. Top consists of extra quality French beveled plate mirror, 36 inches wide and 12 inches high. The hand carved legs are very dainty, claw design and broadened slightly in the center. Weight, 150 lbs. Southern Indiana shipment.

Price, each.....**$17.10**

No. 1-A-267. Quarter sawed oak buffet, highest grade workmanship, finished in a rich shade of golden, highly polished. Height 59 inches, width 42 inches. Has an extra quality French beveled plate mirror, size 8x30 inches. Ornamented base, panels top and corners. French shaped legs. Two roomy drawers, one of which is plush lined for silverware. Large hinged door compartment, profusely ornamented with diamond designed leaded glass, fitted with plain and frosted glass of pleasing pattern. Made by one of the most prominent Illinois furniture manufacturers. Weight, 145 lbs.

Price, each.....**$12.90**

No. 1-A-291. This elegant design in a high grade Buffet is 42 inches long and 22 inches deep front to back. It is fitted with an extra quality French beveled plate mirror 10 inches high and 24 inches wide. The wood used in the construction of this buffet is absolutely first class kiln dried oak which was especially selected because of its beautiful quarter sawed graining. The finish is a rich shade of golden which will harmonize perfectly with the costliest dining room furniture. The symmetrical lines of this buffet will appeal to all who appreciate artistic workmanship combined with beauty of outline and choicest graining. Contains two upper drawers, one of which is plush lined for silverware. Note the three frost glass door compartments beneath, which are commodious and very convenient as receptacles for linen, etc. French shaped legs. Roll base and drawer. Construction is very fine throughout. Weight, 155 lbs.

Shipped from Southern Indiana.

Price, each.....**$15.90**

No. 1-A-391. This magnificent Buffet and Sideboard is an unusually large dining room piece, measuring 48 in. in length and 22 in. in width, extreme height being 64 in. Finely constructed of the choicest figured solid oak, finished in a rich shade of golden. Please note that the entire front, including the Corinthian columns which support the upper shelf and drawer fronts, are veneered with quarter sawed oak. Base contains three small drawers at the top, the center one being lined for silverware. Note the extra deep, full width drawer below for linen and also the double door compartment. Back contains three French plate mirrors, the center one measuring 20 in. wide and 18 in. high. The top is beautifully veneered with cross band stock. One of the most practical as well as elegant piece of dining room furniture ever offered at the price. Weight, 185 lbs. Central Indiana freight.

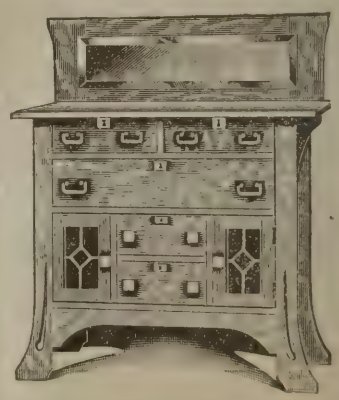
Price, each.....**$16.65**

No. 1-A.269. This handsome Buffet is an exact reproduction of a costly Colonial piece. It is made of choice figured oak throughout, finished in a rich shade of golden. Base contains two drawers at top, one which is lined for silverware. The double door cupboard below has sunken doors in true Colonial style. The upright Colonial columns supporting top shelves are made of quarter sawed oak, cross band veneer which was especially selected because of its beautiful graining. Has a French plate mirror, measuring 24 in. in length and 12 in. height. Size of top is 44x21 in. Weight, 160 lbs. Shipped from Central Indiana.

Price, each.....**$11.50**

No. 1-A-404. This Buffet is 59 in. high, 44 in. long and 21 in. wide. It is made of plain oak. Can be furnished in either golden or Early English. It is fitted with French plate mirror, 32 in. wide and 14 in. high. The columns, top rail and other ornamented parts are made of cross band quartered oak veneer. The columns are 2 in. in diameter and greatly add to the beauty of the design. This is one of the handsomest buffets of its type ever offered at such exceedingly low price. Weight, 175 lbs. Central Indiana shipment.

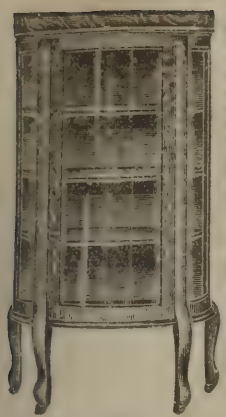
Price, each.....**$14.75**



No. 1-A-1009. This attractive Mission Style Buffet is made of quarter sawed oak, finished golden, weathered oak or Early English as preferred. It is 44 in. wide and 52 in. high. It is fitted with a double thick French beveled plate mirror of the finest quality, 34 in. long and 8 in. high. This buffet contains five drawers for linen, cutlery, silverware, etc. Also has a plush lined drawer for very fine tableware. Has glass handles on upper three drawers and antique brass knobs on the lower drawers. Also contains two small linen glass door compartments below. These buffets were made by a factory which excels in quality, construction and finish and there is absolutely nothing lacking to make this design a perfect piece of furniture and one that will equal your highest expectations. The China Closet to match this buffet will be found illustrated and described on next page. Wt., 170 lbs. Chicago freight.

Price, each.....**$19.40**

CHINA CLOSETS

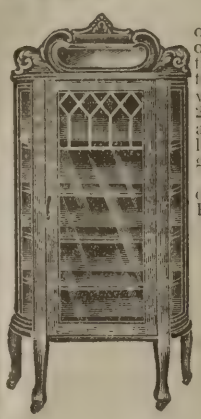


No. 1-A-134. This simple yet pleasing and strictly rich china closet is 61 in. high and 34 in. wide. Has three adjustable grooved shelves for dishes. Finest quarter sawed oak frame. Finish in a rich shade of golden We can furnish it in a gloss or hand polished finish as specified below. Weight, 120 lbs.

Price, gloss.....**$8.95**
Polished..... **9.95**
French Plate Glass Shelves, each.....**$2.75**

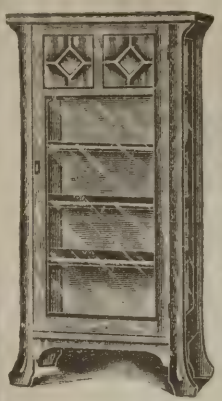
Furnished with mirror backs, each **$1.40** additional.

Shipped from Central Indiana.



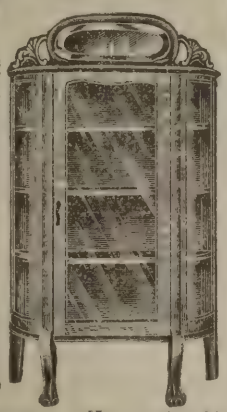
No. 1-A-135. The frame of this china closet is made of absolutely the finest large figured quarter sawed oak, finished golden. Height 66 in., width 34 in. Size of mirror 20x6 inches. Hand carved top and corners, diamond design leaded glass door. Four grooved shelves.

Shipped from Central Indiana. Weight, 145 lbs.
Price **$11.75**



No. 1-A-266. This beautiful china closet is a handsome companion piece to buffet No. 1-A-1009 on page 378. It is 61 in. high and 33 in. wide. Note the large diamond leaded glass ornamentations in upper part of door. It is made of choice quarter sawed oak and can be supplied in the following finishes: Early English, golden oak and weathered oak. It is artistically designed, perfectly constructed and of striking attractiveness.

Chicago Freight.
Weight, 135 lbs. Price, each.....**$12.50**
Mirrors for back... **1.40** each additional.
Plate glass shelves.. **1.75** each additional.



No. 1-A-1032. This china closet is made of quarter sawed oak, finished golden. It is 72 in. high, 46 in. wide. The panels are built of 3 ply stock. Has bent ends, four grooved shelves and large hand carved claw and ball feet. The French beveled plate mirror has beautifully shaped hand carved ornamentations. It is 24 in. long and 8 in. high. Workmanship throughout is of the very highest character. Weight, 165 lbs. Price, each..**$16.00**

If mirror top is not desired, deduct $3.00 when ordering.

Southern Indiana shipment.

No. 1-A-1033. This is one of the most beautiful china closets on the market. The very finest of material and workmanship are embodied in it. The design is extremely rich and pleasing. Has rounded door and ends fitted with double thick bent glass. Has three grooved shelves, hand carved claw and ball feet. Top is double, shaped and fitted with best quality French beveled plate mirror, 36 in. wide and 8 in. high. Extreme height of this piece is 75 in. and the width 46 in. It is made of the finest quarter sawed oak, polished golden. Weight, 175 lbs.

Price, each **$19.75**
No. 1033½. Same without mirror top. Price **$16.00**
So. Indiana Freight.

No. 1-A-182. This china cabinet is made with quarter sawed oak frame and is of pure Colonial design, of rich simplicity and substantial construction. It is finished golden and is hand rubbed and polished. Height 69 in., width 46 in. Has bent glass ends and rounded glass in door. Claw carved feet. Heavy colonial columns, running from top to base. Large mirror top. Kind manufactured. Weight, 235 lbs.

Price, each.....**$24.00**
Without mirror top.....**$20.50**
Mirror back, per shelf **$2.00**
French plate shelves, each.....**$2.00**
Shipped from Central Indiana.

No. 1-A-131. Exquisitely designed Colonial china closet, positively one of the finest designs manufactured. Frame is made of quartered oak, hand rubbed and polished to the highest luster. Beautiful golden finish. Broad Colonial columns elegantly hand carved at top with large hand carved claw feet, receding top, bent ends. Four groved shelves. Artistically leaded with French plate beveled glass as illustrated. Height, 64 in., width 48 in.

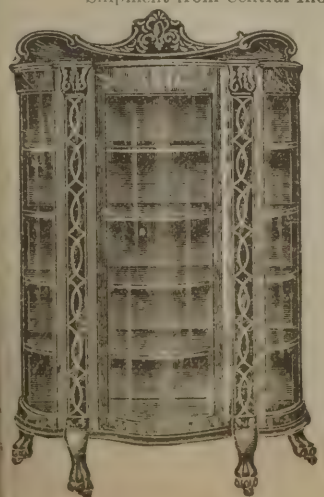
Weight, 250 lbs. Price, with wood back ...**$23.25**
French plate mirror back, each..... **2.00**
French plate shelves, each..... **3.50**
Shipment from Central Indiana.

No. 1-A-1031. Those who wish to purchase a china closet and a buffet, will find this one of the most practical articles on the market. It is made of quarter sawed oak, finished in rich shade of golden. It has large rounded edges, rolls, posts, door frames, etc., all of these being cross band veneered so as to show up the grain and high polish to best advantage. Top is 42 in. long and 23 in. wide. Has French beveled plate mirror of the finest quality, 34 in. wide and 12 in. high. The legs are hand carved, as are the top and shelf supports.

Weight, 145 lbs. Price, each **$24.50**
Southern Indiana Freight.

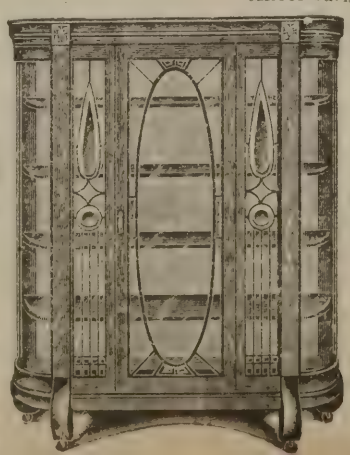
No. 1-A-132. Colonial design china closet, height 67 inches, width 50 inches, made of quartered oak throughout. Hand carved panel top, bent plate glass ends with leaded art glass tops as shown on illustration. Massive top and base. Colonial legs of cross band veneer. A rare value. One of the prettiest china closets on the market at any price.

Central Indiana Shipment.
Price each, panel back.....**$27.75**
Glass shelves for this closet, each..... **4.00**
Mirror backs, each..... **2.00**



No. 1-A-141. This china closet is an exact reproduction of a Renaissance piece. A description, to do justice to this piece is utterly impossible in our limited space. Its lines are graceful and the utmost strength is embodied in its construction. Made of quarter sawed oak, hand rubbed and polished; finished golden. Each side of the door has a panel, richly ornamented with French beveled plate leaded glass and extending from top to bottom. Beautifully carved. Bent door and ends, massive claw feet. Height 73 in., width 46 in. The shelves are grooved. Weight, 200 lbs.

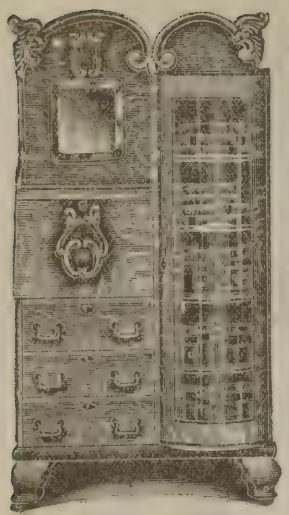
Shipped from Central Indiana.
Price, each, panel back.....**$27.75**
French plate mirror backs, each **2.00**
French plate shelves, each.... **4.00**



No. 1-A-133 Extra large Colonial type china closet. It is a design that once seen can never be forgotten. It is 64 in. in heighth and 52 in. wide. Front door is leaded with double thick and French beveled glass. The broad panels at each side of the door are beautifully leaded with French beveled plate and double crystal glass. Ends are round, legs are Colonial design and are continuous with broad columns extending to extreme top where they end in small hand carvings. The selection of the wood and the finish are as fine as you will find on a piano and make this unquestionably one of the handsomest pieces of dining room furniture it is possible to produce.

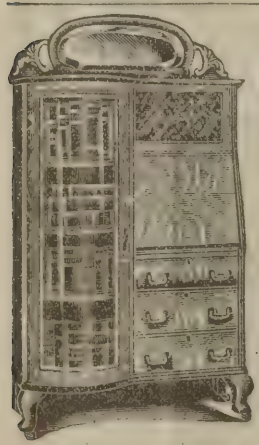
Shipped from Central Indiana.
Price, each, wood panel back...**$30.50**
Mirror backs, ... **2.00**
French plate glass shelves, each **4.00**

COMBINATION BOOK CASES



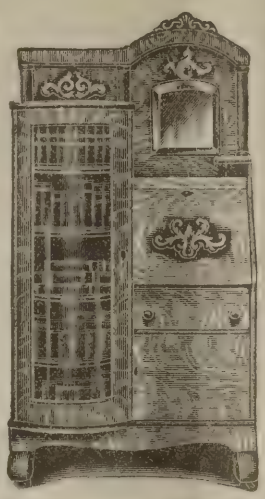
No. 1-A-54. This combination book case is made of solid figured oak, finished golden. It is 5 feet 11 inches high and 3 feet 3 inches wide. Has shapely legs, heavy roll base, roomy desk, three spacious drawers and large book case with four adjustable shelves and bent glass door. Interior and exterior are finely finished. Note the French beveled plate mirror in back, measuring 12 inches high and 11 inches wide. It is profusely adorned with rich deep clear cut hand carved ornamentations extending across top above mirror. A book case of this width and general appearance would ordinarily cost you in a regular retail store, fully $15.00. If you are looking for something extraordinary in the way of value, be sure and take advantage of the great reduction made on this elegant piece of parlor or library furniture. Weight, 125 lbs.

Price, each.....$9.30
(Shipped from Central Indiana.)



No. 1-A-57. This combination book case is 38 inches wide and 69 inches high. It is fitted with a French beveled plate mirror, 24 inches long and 8 inches high. The book compartment has three adjustable shelves and rounded glass door. Desk is finely arranged for practical use and has a frosted glass door compartment above it. Workmanship is guaranteed to be the finest throughout. It is made of quarter sawed oak, hand rubbed and polished to the highest luster, finished in a rich shade of golden. Has heavy French shaped legs and hand carved ornamentations. Weight, 150 lbs. Shipped from Central Indiana.

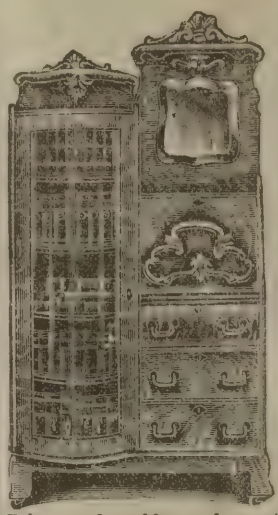
Price, each.....$15.00



No. 1-A-55. This combination bookcase is made in the finest possible manner throughout. It is constructed with a full quartered oak front golden gloss finish. Height 76 ins., width 38 ins. It has an interior arrangement for the accommodation of stationery, envelopes, pencils, etc. Has 4 adjustable shelves. The front, as well as top of back is hand carved. The upright columns and moulded top greatly add to the attractiveness of the design. Double thick bent glass in rounded door. Has 10x12 inch French beveled plate mirror; Colonial roll legs. Shipped from Central Indiana. Weight, 140 lbs.

Price, each.....$10.75

No. 1-A-135½. Same as above with straight glass door.....$10.00



No. 1-A-56. This combination book case is made of finely grained quarter sawed oak throughout. Book compartment contains four adjustable shelves, and is fitted with double thick bent glass door. Height 72 in. Width 38 in. The French beveled plate mirror at top measures 12x12 ins. Has an ideal desk interior for the accommodation of papers, pencils, stationery, envelopes, etc. Top and front are hand carved and highly ornamented. Three roomy drawers beneath desk, upper one being made with a double swell front. Hand rubbed and polished. Weight, 150 lbs.

Price, each, golden oak, weathered oak or Early English.....$14.15

1-A-137½. Same as above, with gloss finish. 13.15

No. 1-A-58. The design shown herewith is one of the finest. Height, 7 6 in., width, 57 in. Made of quarter sawed oak, finished with a high polish or in a rubbed wax finish, as desired. We also have a few in weathered and Early English finish. Each book compartment is fitted with 4 adjustable shelves. Has a 14x14 in. French beveled plate mirror. Extra large and roomy desk, fitted with all conveniences. The top drawer is made full swell so as to conform with bent doors. It has hand carved and heavily moulded ornaments on top and back. Absolutely the very finest figured stock only is used in its construction. It is hand rubbed and polished all over. Legs are massive and hand carved. Weight, 255 lbs. Central Indiana shipment. Price, each.....$27.50

No. 1-A-67. High grade combination book case. Perfect workmanship throughout. Constructed along exquisite, yet simple Colonial lines. Large hand carved spreading claw feet. A practically and conveniently arranged interior. Size of French beveled plate mirror 12x10 ins. Upper drawer is rounded. All edges are made of cross band veneer showing at all points the beautiful graining of the quarter-sawed oak used in its construction. Water rubbed and hand polished all over. Height 6 feet. Width 42 inches. This is an article fit to adorn the most palatial home. Weight, 160 lbs. Shipped from Central Indiana.

Price, each.....$16.25

No. 1-A-69. This combination book case is 6 feet, 2 inches high, 3 ft., 6 ins. wide and is ornamented with a beveled plate mirror 24 ins. wide and 8 ins. high. The lines are of the dainty French type, yet perfectly seasoned stock assures the buyer of utmost strength. The wood is of the choicest quarter sawed white oak, especially selected for its figured effect, and is hand rubbed and polished all over, golden finish. All cabinet work and interior construction is A No. 1, as excellent as one of the largest factories in the country can turn out. Book compartment has a bent glass door and four adjustable shelves. Right hand side contains at the top two double latticed glass doors, enclosing a roomy cupboard. An extra wide and commodious drop leaf desk, fastened with the best device for rigidity, the interior being tastily and properly arranged with pigeon holes and drawers for all ordinary requirements. Below the desk are three drawers, the upper one with rounded front. All drawers are smoothly fitted and finely finished inside and are equipped with cast brass hardware. French claw legs, hand carving of superior elegance and highest workmanship complete the appearance of the top, back panel and desk front. The top rail, bottom rail, top panel between drawers, etc. all have tasty mouldings. Weight, 125 lbs. Shipped from Southern Indiana.

Price.....$18.65

No. 1-A-68. Colonial design combination book case. We can furnish this article in either a fine quarter sawed oak or genuine mahogany veneer. Is hand rubbed and polished to the highest luster. If ordering in oak, be sure and specify whether you wish Early English, weathered, Antwerp, fumed or golden oak. Has double thick bent glass in door, measuring 14x48 in. Two French beveled plate mirrors in back, size 14x10 in. and 12x7 in. respectively. Height 75 in. Width 41 in. The practicability of the interior arrangement will meet with the approval of any individual who appreciates economy of space and convenience of appointment. The three drawers below desk have shapely double swell front. Top, back and front are beautifully ornamented with deep, clear-cut hand carvings. This beautiful piece of library furniture must be seen to be appreciated. Four adjustable book shelves. Weight, 160 lbs.

Price, in any finish specified above. $19.75

Library and Sectional Bookcases

(Southern Indiana.)

No. 1-A-81. This Library Bookcase can be furnished exactly as illustrated herewith, or with a back rail in place of the mirror back shown in the engraving. Height with mirror back, 5 ft. 8 in. Height without mirror back, 5 ft. Width, 3 ft. 4 in. Depth (front to back), 11 in. Mirror is a perfect plate glass, and measures 14x6 ins. The interior is divided into two compartments, each containing three shelves, adjustable to any desired height. The one at bottom makes the fourth shelf. It is made of solid plain figured oak throughout, finished in a rich golden gloss. The doors have coped edges and are fitted with brass pulls and locks. All details have been carefully worked out, and this design may be considered a perfect piece in every respect. Note the projecting moulded base and neat shaped feet. Weight, 125 lbs.

Price, as illustrated.....$8.95

No. 1-A-81½. Same as above without carved mirror back.....$7.75

No. 1-A-76. Quarter sawed oak Library Case. Hand rubbed and polished, golden oak finish. Height 6 ft. 2 in., width 3 ft. 4 in. Interior is divided into two compartments, each of which is fitted with four adjustable shelves as illustrated. French beveled plate mirror, 34 ins. wide and 8 ins. high. Simply ornamented with deep hand carving. Doors are equipped with strong locks. Weight, 165 lbs. (Southern Indiana.)

Price, each...$16.00

No. 1-A-76½. Same as above without mirror top. Height 5 ft. Weight, 150 lbs.

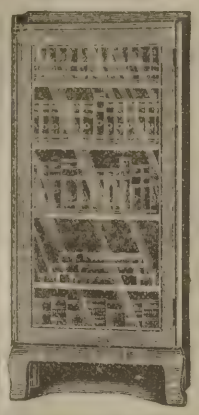
Price, each...$11.75

No. 1-A-77. Exquisite workmanship in this Library Case cannot be fully appreciated unless you see the article yourself. It is tastily adorned with hand carved ornamentations. Each side has five adjustable shelves. Notice the beautifully leaded glass effects in upper portion of doors. Made of the largest grained quartered oak stock, hand rubbed and polished or wax as preferred. We can furnish Early English, weathered or golden oak finishes. It is impossible to buy a finer appearing library case than this design. Weight, 170 lbs. Shipped from Southern Indiana.

Price, each.....$18.25

No. 1-A-77½. Same as above without leaded glass effects in doors.

Price, each.....$16.25

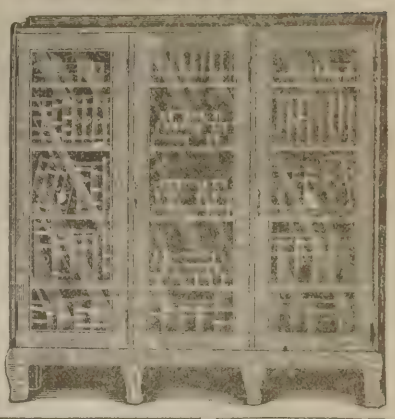


No. 1-A-88. These perfectly constructed Bookcases can be furnished either three, two or one door sizes. We illustrate single and triple door sizes. The two door size is not illustrated, but the others are shown so that you can get a fairly good idea as to how this case will appear in a two door size. All these cases measure 59 ins. high. Single door case is 26 ins. wide; double door case 37 ins. and triple door case 55 ins. They are made of quarter sawed oak, and can be furnished in either golden or weathered oak finishes as preferred. All shelves are removable and adjustable to any desired height. Top and front are made of choice grained quarter sawed oak. Chicago freight.

Price, single door case, weight, 80 lbs.....$7.20

Price, double door case, weight, 120 lbs.....$9.60

Price, triple door case, weight, 175 lbs.....$14.50

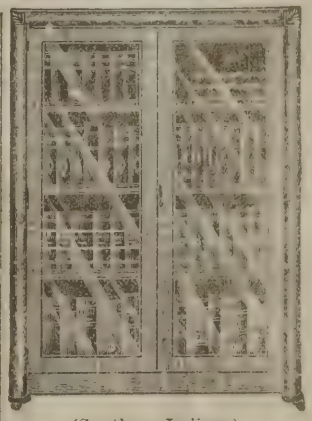


(Shipped from Southern Indiana.)

No. 1-A-75. Colonial Library Case, quarter sawed oak, finished golden; massive Ionic columns at the sides. It is a simple, yet extremely beautiful design. Shaped top and carved ends. We can supply this case in either polished or rubbed wax finishes as desired. We have a few in the weathered oak and Early English finishes. Scroll feet. Height, 5 ft. Width, 63 in. Weight, 260 lbs.

Price, each.....$19.00

No. 1-A-75½. Same as above, except that it is fitted with two doors and measures 44 in. wide. Weight, 165 lbs. Price, each.....$13.60

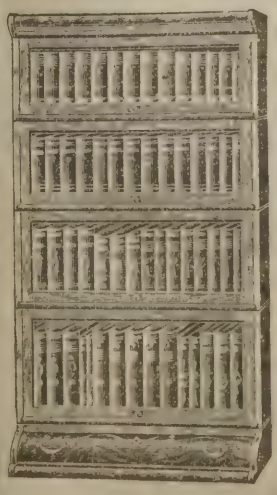


(Southern Indiana)

No. 1-A-82. This double section Library Bookcase is 4 ft. 7 in. high and 44 ins. wide. It is made of the finest Northern birch throughout, with a genuine mahogany veneered front. Notice heavy, full rounded Colonial columns at sides and top. The shelves are adjustable and can be lowered or raised to fit your books. Fitted with double strength glass doors. The entire case is water rubbed and hand polished to the highest luster. An excellent piece of library furniture which will harmonize with the most expensive library pieces. Weight, 125 lbs.

Price, each.....$12.95

Sectional Bookcases



No. 1-A-78. These Sectional Book Cases are positively the finest yet manufactured, for appearance, service and shipment. They are of a leading standard make and can always be added to. The doors are roller bearing, removable and close on air cushions. No slamming. Slide noislessly without any binding or sticking.

These cases are shipped knocked down flat, which will save you one-half on transportation and probably much trouble. When set up they become solid sections and can be moved full of books, if desired. No tools or screws are required, and anyone can easily set them up.

All cases measure 34¼ in. long outside, 32¼ in. inside. For each vertical stack a top and base are needed. The height shows the size of books they will accommodate, although about one inch should be allowed for handling at the top. You can easily estimate what size sections you will need for your books. These cases can be furnished in all sizes in plain oak, golden or weathered finish: and in quartered oak, golden, weathered or Early English finish, also in birch mahogany finish, at the following prices. Chicago freight.

	Plain Oak (either finish)	Quartered Oak (Any finish) or Birch Mah'g'ny. (Piano polish)
"B" top sections, each	$1.45	$1.95
8⅝ inch " "	1.95	2.60
9⅞ " " "	1.95	2.60
10⅛ " " "	2.30	2.95
11⅛ " " "	2.45	3.10
12⅝ " " "	2.65	3.35
13⅜ " " "	2.75	3.45
Leg base	1.45	1.95
Plain base	1.45	1.95
Drawer base	2.75	3.25

Prices on leaded glass doors extra.

No. 79. Diamond leaded, per door (any size).....$1.30

No. 80. Mission leaded, per door.....1.30

These identical cases are being sold all over the country at prices ranging from 55c. to $1.55 more than the above prices.

PARLOR AND FOLDING TABLES

No. 1-A-196. Attractive solid oak heavily reinforced frame with shapely top and moulded edge. Turned legs. Excellently designed shelf below. Absolutely the finest construction throughout. We have these tables in three different sizes as specified below:

Size 16 x 16 in., weight, 14 lbs. Price,.....**$0.80**
Size 20 x 20 in., weight, 16 lbs. Price,.....**$1.00**
Size 25 x 24 in., weight, 18 lbs. Price,.....**$1.30**

For 30 cents additional we supply this table with hand rubbed and polished quarter sawed oak top. With claw feet, 25 cents extra.

No. 1-A-143. This center table is 29 inches high and is fitted with a top 12 inches in diameter, has turned pedestal, supported by three shapely legs. Moulded rim and edge. Weight, 8 lbs. Golden or weathered oak. Price, each...**40c**

No. 1-A-270. This parlor table can be furnished in either American quarter sawed oak or birch mahogany, finished with a rich polish, in the various sizes designated below. The figures given represent the actual size of the top.

Size 16 x 16 in, weight 14 lbs. Price **$1.50**
Size 20 x 20 in, weight 20 lbs. Price **1.75**
Size 24 x 24 in., weight 22 lbs. Price **1.90**
Size 22 x 30 in., weight 35 lbs. Price **3.75**
Size 26 x 26 in., 37 lbs **3.75**
Size 28 x 28 in., 38 lbs..... **4.50**
Size 24 x 36 in., 43 lbs..... **4.50**

No. 1-A-195. Antique Colonial center table made of figured plain oak of a golden gloss finish. Shaped top has reinforced heavy corrugated base moulding. Slightly tapering supports at both ends. Top is 30 in. long and 22 in. wide. Weight 40 lbs.
Price, each.....**$2.55**

To eliminate breakage and reduce freight charges we ship all tables "knocked down." Special construction gives them absolute rigidity when set up.

No. 1-A-197. This parlor table has a top which measures 20 in. in diameter, artistically designed legs and shelves, and extra support at the center. Top rim, edge of lower shelf and of four legs are artistically ornamented with beaded carving. Hand rubbed and polished to a mirror like brilliancy. Weight, 20 pounds.

Quarter sawed oak,.....**$1.85**
Birch mahogany,.....**1.85**

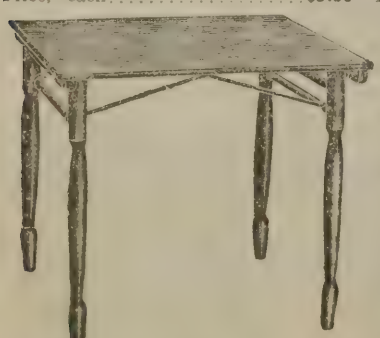
No. 1-A-193. This parlor table is made of quarter sawed white oak; has French style legs neatly ornamented with hand carvings. Also shelf for magazines, books, etc. Has a round top with wave edge, size 24 x 24 in. The construction of this table is the best and will not sway or loosen as ordinary tables will do after short service. It is hand rubbed and polished and will show up advantageously with the finest parlor furniture. Weight, 35 lbs.
Price, each.....**$3.50**

No. 1-A-194. This oval parlor table is made of quarter sawed oak, finished golden. Is hand rubbed and polished all over. Top is 28 in. long and 22 in. wide. Note the roped edge frame. Legs are of simple, yet perfect French type. Also shelf for magazines, books, etc. Guaranteed absolutely rigid. Perfect workmanship throughout. Weight, 25 lbs.
Price, each.....**$4.00**

No. 1-A-1008. This parlor table has a pedestal 7 inches in diameter, veneered all around so as to show off the large flaky grain. Top measures 26 x 26 in. and is framed in below with a rope edge moulding at bottom. The legs are Colonial, Made of quarter sawed oak, finished golden. It shows up very richly, being polished by hand to the utmost brilliancy. Weight, 55 lbs. Price, each.....**$6.75**

No. 1-A-1008½. Same table as above but with round top, 26 inches in diameter. Weight 60 lbs. Price, each **$7.00**

No. 1-A-198. Parlor table, with either round or square top. Round top 26 inches in diameter. Square top 26 in. x 26 in. Made of quartered oak stock, hand rubbed and polished to the highest piano luster. Cross band veneer columns, three inches in diameter. Heavy hand carved claw feet. Weight, 55 lbs.
Price, each. Square top....**$7.00**
" " Round top.... **7.25**



No. 1-A-321. This card and lunch table is made of solid ash finished in antique, golden, weathered Flemish, or Early English. They come with various tops as specified below. We quote them in dozen lots. If less than 12 are desired, add 25c for crating.

	Price per doz.
Pattern "C" size 24x24 in. top, ash natural or golden.	**$12.00**
Oak, natural or gloss	**14.00**
Cherry, natural, or mahogany, gloss	**12.50**
24 x 30 ash.....**$15.00** Oak or cherry.....	**16.00**
"C" size 30 x 30, ash . **16.50** Oak or cherry.....	**18.75**
Also the same as "C" but with a round top.	
30 in. diameter, ash....**$19.00** 34 in. top, ash **$22.00**	
30 in top, oak or cherry **22.00** 34 in. top, oak or cherry **25.00**	
Pantasote or felt covered tables. Extra, per dozen:	
24 x 24 in. .....**$5.00** 24 x 34	**$6.00**
30 x 30 in..... **6.25** 34 x 34	**6.00**

No. 1-A-199. An unusually distinctive and exclusive Colonial parlor table. Excellent workmanship throughout. Only the best material used. Artistic pedestal base, Colonial frame, heavy scroll legs, a masterpiece of workmanship. Quarter sawed oak. Golden finish, hand rubbed and polished. A design that we highly recommend to anyone wishing something of remarkable merit and originality of design. Weight, 40 lbs.
Price each....**$4.75**

No. 1-A-320. This parlor table is made of quarter sawed oak, finished golden and highly polished throughout. Top measures 26 inches square. Has rope edge with box rim. Heavy legs. Glass ball claw feet, exactly like illustration. Weight, 45 lbs.
Price each.....**$4.75**

Library Tables

No. 1-A-206. This pleasing Library Table is finely constructed of figured solid oak finished in rich golden gloss. The top is 42 in. in length and 28 in. in width and has rounded edges. Note the large sized drawer in top. Has a patented construction throughout assuring perfect rigidity and strength. Heavy legs are artistically turned and have ball feet. A first class table at an extremely low price. Weight, 60 lbs. Shipped from Southern Indiana.

Price, each.....**$5.25**

No. 1-A-204. American quarter sawed oak LibraryTable hand rubbed and polished to a piano luster. Finest construction throughout. Has an extra heavy top 40 in. long and 24 inches wide. Full swell box rim. Roomy shelf below. A table that will last a lifetime and give perfect satisfaction. A pleasing piece of furniture that will satisfy all. Weight, 85 lbs.

Price, each.....**$7.50**

No. 1-A-179. An attractive Colonial style Library Table of the finest construction and most substantial workmanship. A piece fitted to adorn the finest home. Made of American quarter sawed oak, finished golden. Also a few in the popular weathered oak finish. Size of top 42 in x 28 in. Large drawer, massive pillars, scroll feet. Special magazine shelf for books. Weight, 85 lbs.

Price, each.....**$7.75**

No. 1-A-178 This high grade Library Table is made of flaky grain quarter sawed oak, finished golden and is hand rubbed and polished to a piano luster. Fine matching of grain and supreme workmanship embodied in this table. Top is beautifully shaped, has round corners and measures 46 in. long and 28 in. wide. Broad magazine shelf below, mortised into ends. Note the feet, which are carved to correspond with the corrugations running to the double top. Has good sized drawer with lock and brass knobs. Weight, 125 lbs. Shipped from Southern Indiana.

Price, each.....**$12.95**

No. 1-A-373. American quarter sawed oak Parlor Table, hand rubbed and polished to a mirror-like brilliancy, finished in a rich shade of golden. Top measures 26x40 in. Has a medium sized drawer and large shelf below, heavy round legs and Colonial ball feet. A wonderful bargain which we know will more than please purchaser. Weight, 90 lbs.

Price, each.....**$5.80**

No. 1-A-205. Library table made of selected quarter sawed oak hand rubbed and polished to a mirror like brilliancy. Size of top 48x28 inches. Has rounded edges and large drawer with individual lock. Note the shapely French legs, also shelf for magazines, books, etc. Patented guaranteed construction insures perfect rigidity. Weight, 95 lbs. Southern Indiana shipment.

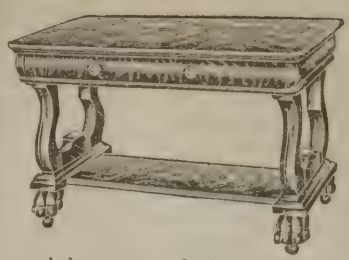
Price, each.....**$9.00**

No. 1-A-180 This beautiful Library Table is made of choicest grained white oak, perfectly seasoned, finished golden. It is hand rubbed and polished to the highest luster. Size of top 42 in. x 28 in. Large drawer, massive columns, showing the quarter-sawed figure to the best advantage. Spreading hand carved claw feet. An absolutely rigid table, made to withstand heavy service. Weight, 95 lbs.

Price, each.....**$12.00**

No. 1-A-203. This massive Library Table is of Colonial type and is especially recommended to all who want a first-class stylish library table at a medium price. Tables, the equal of this, usually sell at from $25 to $30. Comparison of prices will conclusively demonstrate this. The top, rim, pillars, platform base and legs are cross band veneer, bringing out the most beautiful wood effects made possible only by this method. Pillars are each 6 in. in diameter (top contains one invisible drawer). Size of top, 48 in. long and 38 in. wide. Note the Colonial scroll feet. Weight, 165 lbs.

Price, American quartered oak .....**$ 9.40**
Price, Genuine quarter sawed oak **13.00**
Price, Genuine mahogany **13.50**



No. 1-A-181. One of the handsomest Library Tables ever designed. It is of extra size, measuring 50 in. in length and 30 in. in width. The top has rounded corners and edge. The large drawer has lock and brass knobs. Massive legs of hand carved claw type. The wood used in its construction is of the very finest selected quarter sawed oak, finished golden, hand rubbed and polished to a mirror like brilliancy. Broad shelf below for magazines, books, etc. Weight, 165 lbs.

Price, each.....**$17.00**

No. 1-A-202. This elegant Library Table can be furnished in either American quartered oak or genuine quartered oak veneer. It is 42 in. long and 26 in. wide. It is hand rubbed and polished to the highest luster Workmanship is absolutely the very best throughout. It has one drawer without knobs which is invisible except on very close inspection. Has four supporting pillars each 4 in. thick.

Price each, American quartered oak .....**$ 9.15**
Price each, Quarter oak veneered **12.00**

No. 1-A-201. This Colonial Library Table is hand rubbed and polished to the highest luster. Workmanship on it is of the very best. Nothing is skimped in its manufacture to make it one of the finest tables on the market. It has a top 48 in. in length and 30 in. in width which contains one drawer. All edges are cross-band veneered. Order this table with a positive understanding that it is as fine as man can make. Weight, 165 lbs.

Price each, American quarter sawed oak ...**$10.50**
Price each, quarter sawed oak veneer **14.15**
Price each, Cuban mahogany **14.75**

No. 1-A-217. This finely proportioned Library Table, is an exact reproduction of an expensive Colonial design. We can furnish it in either quarter sawed oak, finished golden, or Cuban striped mahogany. All are hand rubbed and polished to the highest luster. An absolutely high class table. Comes as follows:

30x24 in. top.	Wt., 60 lbs.	Price.....**$ 6.00**
36x24 in. top.	Wt., 75 lbs.	Price.....**8.00**
42x28 in. top.	Wt., 90 lbs.	Price.....**10.00**
48x28 in. top.	Wt., 115 lbs.	Price.....**12.00**

House Desks, Music Cabinets and Pedestals

No. 1-A-311. Ladies' Writing Desk, made of solid oak, finished in a rich golden gloss. Height 62 in., width 30 in. Has a French beveled plate mirror 10 in. wide and 6 in. high. Has a practical interior desk arrangement, Weight, 100 lbs.
Price, each.....**$6.20**

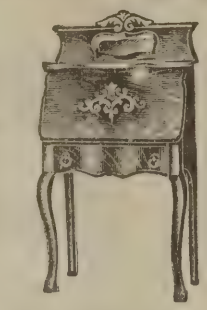
No. 1-A-250. Colonial design pedestal. Height 34 in. Diameter of top 14 in. Made of solid oak finished in golden or weathered finish. Can also be furnished in birch mahogany.
Weight, 20 lbs.
Price in any of these finishes.**$2.80**

Central Indiana Shipment.

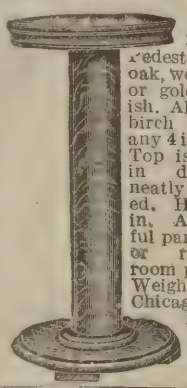
No. 1-A-228 Music Cabinet. Height 44 in.; width 18 in. Can be furnished in either quarter sawed oak, finished golden, or genuine mahogany. Fitted with French beveled plate mirror, size 14x6 in. Cabinet contains five shelves for sheet music and a spacious drawer at top for miscellaneous articles. Weight, 60 lbs.
Price,.....**$7.90**
No. 1-A-228½. Same without mirror, any finish.
Price **$6.25**

Chicago Freight.

No. 1-A-253. Disc record cabinet 26 inches wide, 18 in. deep and 35 in. high, Golden, weathered or mahogany finish. Interior is finished with partitions arranged so as to hold 220-12 in. disc records. Weight, 63 lbs. Price, ..**$10.15**
No. 1-A-258½. Same as above but for cylinder records, will hold 200.
Price, any finish.....**$11.15**



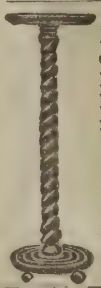
No. 1-A-448. Made of quarter sawed oak finished golden, hand rubbed and polished. Excellent interior. Note the French bevel plate mirror 14 in. wide and 6 in. high. Height 55 in., width 30 in. Weight, 100 lbs.
Southern Michigan freight.
Price,.....**$7.75**



No. 1-A-249. Pedestal; solid oak, weathered or golden finish. Also a few birch mahogany 4 in. pillar. Top is 12 in. in diameter. neatly finished. Height 36 in. A beautiful parlor, hall or reception room piece. Weight, 13 lbs. Chicago stock.
Price, .. **$2.50**

Central Indiana Shipment.

No. 1-A-405. This Ladies' Writing Desk is made of seasoned plain oak, finished in a rich golden gloss. 40 in. high, 24 in. wide. 13 in. deep, closed. Has a reinforced brass strip which prevents the drop cover from loosening or wabbling. It is fitted with a strong lock and well constructed drawer below. Neatly ornamented.
Weight, 60 lbs.
Price, each.....**$3.40**



No. 1-A-225. Pedestal; golden oak or birch mahogany. 36 in. high, 12 in. top, rope turned pillar. High gloss finish. Beautiful design at a remarkably low price. Weight, 18 lbs.
Chicago stock.
Price, each..**$2.20**

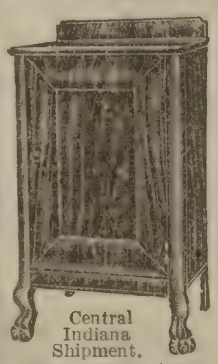
Central Indiana Shipment

No. 1-A-406. This desirable Ladies' House Desk is made of plain oak, finished in a rich golden gloss. Height 47 in. width, 47 in. French plate mirror, 10 in. long and 4 in. high. The drawer is carefully fitted and finished and equipped with a substantial lock and key. Interior measurement of drawer is 19¾ in. long, 9½ in. wide and 3 in. high. Weight, 70 lbs.
Price, each.....**$4.10**

No. 1-A-227. Quartered sawed oak pedestal, golden finish, hand polished. Double top is 14 in. in diameter, 5 in. column. Box base is of rich and clean cut design. Height 36 in. Weight, 30 lbs.
Price, each.....**$3.25**

No. 1-A-312. Parlor, Library or Business Man's Desk, solid oak, finished in a rich golden gloss. It is 68 in. high, 30 in. wide and weighs 130 lbs. Workmanship first-class throughout. The interior is practically arranged. Has index letter files in cupboard below. Attractive brass hardware. Price,....**$15.00**
No. 1-A-312½. Same as above without bookcase top. 47 in. high. Price, ...**$10.50**

No. 1-A-371. These pedestals furnished in either quarter sawed oak, golden or weathered finish or genuine mahogany veneer, hand rubbed and polished all over to the very highest lust r. Height 35 in., size of top 13x13 in. Has a shaped pillar and broad rolled feet. Extra heavy top. Weight 35 lbs. Chicago stock. Price,.....**$7.15**



Central Indiana Shipment.

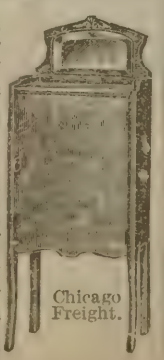
No. 1-A-226. Music Cabinet; height 39 inches, width 22 in., made of the finest Cuban mahogany veneer, especially selected for its contrast in grain. One piece upright posts, large claw feet, beautifully carved. Weight, 60 lbs.
Price, each.....**$9.00**

Central Indiana Shipment.

No. 1-A-219. Music Cabinet. Exquisite Colonial reproduction, finest Cuban striped mahogany polished throughout. 40 in. high, 20 in. wide, showing the beauty of the wood to a special advantage. Full swell front drawer, which harmonizes with bent door over which it projects. Solid brass knobs. Weight, 70 lbs...Price.....**$10.50**

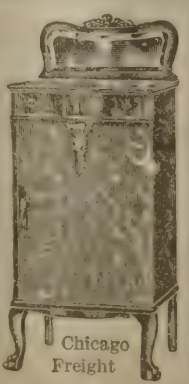
Southern Indiana Shipment.

No. 1-A-218. Music Cabinet; genuine mahogany or quarter sawed oak, hand rubbed and polished to a piano luster. Height 48 in., width 22 in. Hand carved ornamentations. Swell front door. French beveled plate mirror, size 18x8 in. Conveniently arranged shelves for music. Weight, 65 lbs. Price, mahogany or quartered oak.....**$10.50**
No. 1-A-218½. Same as above, without mirror, either finish.....**$9.00**



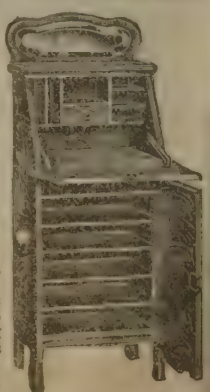
Chicago Freight.

No. 1-A-121. Best of construction throughout. Height 47 in., width 18 in. Has patented interior, projecting shelves which slide forward automatically when door is opened. Has 12x6 in. French beveled plate mirror. Furnished in either quarter sawed golden oak, or birch mahogany. Weight, 55 lbs.
Price, oak. ..**$6.20**
Price, Mahogany finish **$6.50**
Price, either finish, without mirror.....**$4.75**



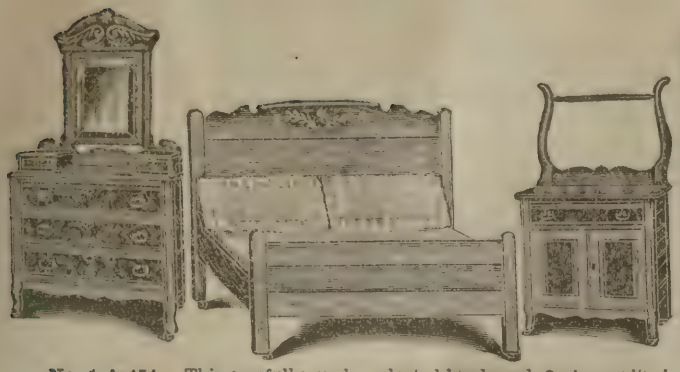
Chicago Freight

No. A-1-121. Empire design, made throughout of the finest Cuban striped mahogany, hand rubbed and polished. Has seven shelves which automatically slide to the front when the door is opened, each shelf projecting further to the front than the shelf above. French beveled plate mirror, size 18x7 in. Height of cabinet 47 in., width 22 in. Weight, 65 lbs.
Price, as illustrated.....**$10.75**
Price, without mirror..... **9.35**

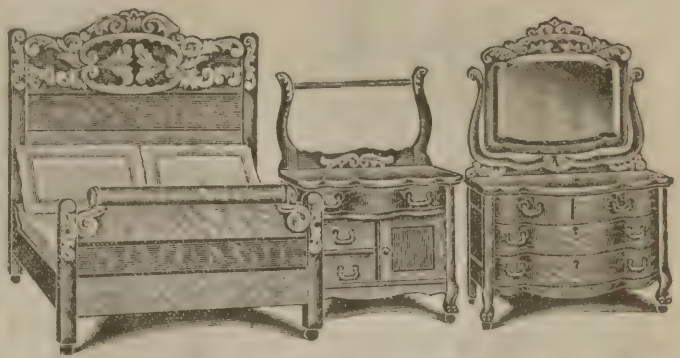


No. 1-A-257. Combination Ladies' Writing Desk and Music Cabinet. Height 49 inches. Width 20 inches. Music compartment is 16 inches wide, 22 in. high, and 12 inches deep. Contains six shelves. French beveled plate mirror 16 inches long and 4 inches high. Golden or weathered oak, also mahogany finish. Price, any finish, **$9.80**

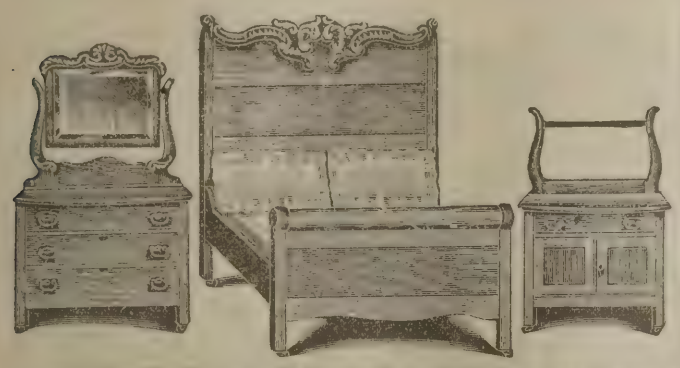
WOOD BEDROOM SUITES



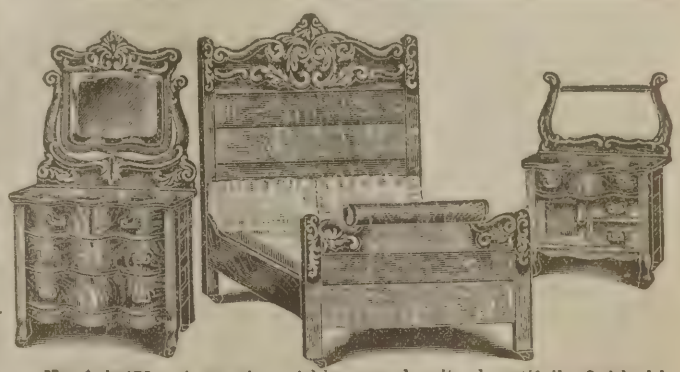
No. 1-A-454. This carefully made, selected hardwood, 3-piece suite is well finished in a rich golden color. The bed, commode and bureau are of pleasing design attractively ornamented. The bed can be furnished 4 ft. 6 in. or 3 ft. 6 in. wide. The bed is 3 ft. 6 in. high. The dresser has a top 17x38 in. and a French bevel plate mirror 20 ins. high, 12 ins. wide. Contains 3 full size drawers and 2 small drawers on top. The commode is 29 ins. long, 16 ins. deep and contains one roomy drawer and a double door cupboard. The drawer fronts are of specially figured stock and fitted with brass handles. We recommend this to any one wishing a low priced, attractive, serviceable and durable bed room suite. Weight, about 290 lbs.
Price.....**$9.95**



No. 1-A-456. This hard wood suite was specially designed by the manufacturers for hotel trade. It is of selected stock, thoroughly seasoned and finished a rich golden gloss. The dresser contains 3 roomy drawers. The top measures 38x17 ins. The French bevel plate mirror is 24 ins. high and 20 ins. wide. The commode is 29 ins. long, and 16 ins. front to back. The drawer front and bed panels are of specially figured stock. The bed slats are 4 ft. 6 in. wide, top being 6 ft. 3 in. high. The heavy roll foot board and top are handsomely carved to correspond with dresser. A very pleasing suite. Weight, about 290 lbs. If bought in the ordinary way would cost double our price.
Complete as illustrated.....**$14.75**



No. 1-A-457. This rich and pleasing 3-piece suite is one we can recommend as properly constructed and extremely well finished all the way through. Made of perfectly seasoned figured oak, finished a rich golden gloss. The bed is 6 feet, 3 inches high and 4 feet 6 inches wide. The foot board is mounted with a heavy 3 inch roll. The dresser top is 40 inches wide, and 18½ inches front to back, and contains three large drawers, with the best locks and handles. French plate bevel mirror measuring 24 x 20 inches and has heavy hand carvings to correspond with those on the head of the bed. The commode is 32 inches long and 18 inches front to back. The drawer construction is excellent and will not bind or loosen. Weight, about 290 lbs. Price, complete.....**$18.95**

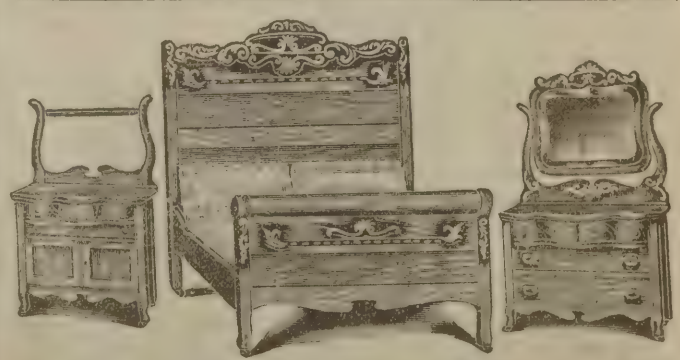


No. 1-A-458. A massive, richly carved suite, beautifully finished in golden oak. The bed is 80 in. high, 4 ft. 6 in. wide. The dresser top is 40 in. long, 21 in. wide. The French plate mirror is 24x20 in; the commode is 34 in. long and 19 in. front to back. Notice the heavy hand carvings ornamenting all pieces. The foot of the bed has a 4 inch quartered oak roll. Front of dresser, serpentine drawer in commode and bed panels are all quarter oak of special selection. All drawers slide readily, and are full dove-tailed front and back. Made by a factory of highest repute, and shipped from Central Indiana. Weight, about 300 lbs.

Bed.....	**$ 5.60**	Commode	**$ 4.65**
Dresser.....	**10.20**	Suite, complete.....	**20.00**

No. 1-A-459. A distinctively attractive, excellently constructed, figured and quarter sawed golden oak suite. The workmanship, design and finish are all that could be expected in much higher priced goods. The bed is 80 in. high, 4 ft. 6 in. wide; the dresser is 40 in. long and 20 in. wide; the commode is 34 in. long and 19 in. wide. Pattern of mirror is of French bevel glass 28 in. wide and 12 in. high. The ornamentations on all three pieces are unusually heavy, clean cut, and are hand carved. The foot of the bed has a massive 4in. roll, adding materially to its attractiveness. All stock is carefully seasoned and well put together.

Bed.....	**$7.25**	Dresser.....	**$10.65**
Commode.....	**4.65**	Suite, complete.....	**22.40**



No. 1-A-455. This suite is substantially made throughout, of selected figured and quarter sawed oak, finished golden. The bed is 6 ft. 4 in. high and 4 ft. 6 in. wide. Is nicely paneled. The foot having a very heavy roll. Nicely decorated with heavy hand carvings. The dresser has serpentine top drawers with selected quarter sawed oak fronts. The top is 44 in. long and 21 in wide. The French bevel mirror measures 30x24 in. Mirror frame and back are carved to match the bed. The commode has 2 full length drawers and double door compartment below. The top measures 18x35 in. General construction is all that could be wished for. Weight of suite, 300 lbs. Price.....**$23.50**

All Pieces and Suites on this page are shipped from Southern Indiana.

WONDERFUL BED ROOM SUITE BARGAINS

LATEST DESIGN THREE-PIECE BED ROOM SUITE.

No. 1-A-5. This is an exceptionally artistic Bed Room Suite, made by a factory which turns out only the higher grade furniture, and who employ only the most expert workmen. This suite is constructed throughout of selected figured and quarter sawed oak stock, carefully kiln dried and finished in a rich shade of golden. The Bed is 82 in. high and 4 ft. 6 in. wide. The Dresser is 45 in. long and 22 in. wide, front to back. The French beveled plate mirror is 28 in. wide and 22 in. high. The Commode is 34 in. long and 19 in. wide front to back. Some idea of the richness and elegance of this suite can be obtained from the illustration which however, cannot do justice to the finish and carved ornamentations which adorn the head and foot end of the Bed, the 4 posts, the Commode and the mirror frame and standards. The Bed has a 4 inch roll across the full length of the top except on the ornamentations at the ends. All rolls are of the choicest cross band quarter sawed oak which bring out the wood in a manner otherwise impossible. All drawers in the dresser and the top drawer in the commode have serpentine quartered oak fronts. All drawers are finished smoothly inside and out, dove tailed front and back and will not stick, bind or loosen. All have individual locks and brass hardware. The Commode has two half sized drawers below and a panel door compartment. The standards on both the Dresser and Commode are of pleasing scroll style. The posts of the Bed are extra heavy. This suite is far superior to any ordinarily obtainable for within $10.00 of our price, as it would usually sell for fully $35.00. Weight, 310 lbs.

The extra size of the dresser is not properly brought out in the illustration.

Price, Complete suite..... $25.35
Price, Bed alone..... 8.65
Price, Commode alone..... $ 4.65
Price, Dresser alone..... 12.05

A SPLENDID VALUE AT THE LOW PRICE.

No. 1-A-6. This Bed Room Suite is made throughout of the best quarter sawed golden oak and selected figured plain oak in the highest golden gloss finish. The head end of the Bed is 80 in. high and is furnished with 4½ ft. slats. The top of the Dresser is 45 ins. wide and 22 ins. deep front to back. The French bevel plate mirror is 30 in. wide and 24. high. The Commode top is 34 ins. by 19 ins. This suite is designed along very pleasing French lines. All drawers in the Dresser are full serpentine and are made of the choicest large flaky grained quarter sawed oak. The top drawer of the Commode matches same in wood and style. All posts are heavy and end in attractively shaped French legs. The Bed is especially richly hand ornamented. The foot has 4 in. cross band quarter sawed roll surmounting a very heavy cross band ornamentation, to correspond with the one on the top. The top of the Dresser also has a very heavy roll to correspond. All drawers are fitted with good locks. The top of the Commode and Dresser are of double thickness, are serpentine shaped and have an attractively moulded rim all around. The hand carving, a very large quantity of which ornaments the three-piece suite is of the high grade and extra depth and must be seen to be fully appreciated. The ends of the Commode and Dresser are fitted with three ply panels. The interior construction is usually good, all drawers being full dove tailed, the body, front and back being made of carefully seasoned stock. We can safely assert that they will not stick, bind or weaken with the hardest of use. Weight, 310 lbs.

Price of Suite, complete..... $27.25
Price, Dresser alone..... 13.50
Price, Bed alone..... 9.50
Price, Commode alone..... 4.65

All suites and pieces on this page shipped from point of purchase in Central Indiana

THIS BARGAIN MUST BE SEEN TO BE APPRECIATED.

No. 1-A-7. This massive, Bed Room Suite is equal to those usually sold for $35.00 to $50.00. It is made of seasoned oak, finished in a golden gloss. The entire front of the Dresser, upper drawers of the Commode and the panels of the Bed are quartered sawed oak, especially selected for its large flaky figure. The Bed itself is exquisitely, and massively carved in an interlocking scroll and floral design. This carving covers practically the entire head and foot. The head itself is 82 in. high and the slats are 4½ ft. wide. The posts are extra heavy and end in shapely French feet. The heavy carving on the top of mirror corresponds perfectly with that on head and foot of Bed. The back panels and standards are also richly and deeply carved to correspond.

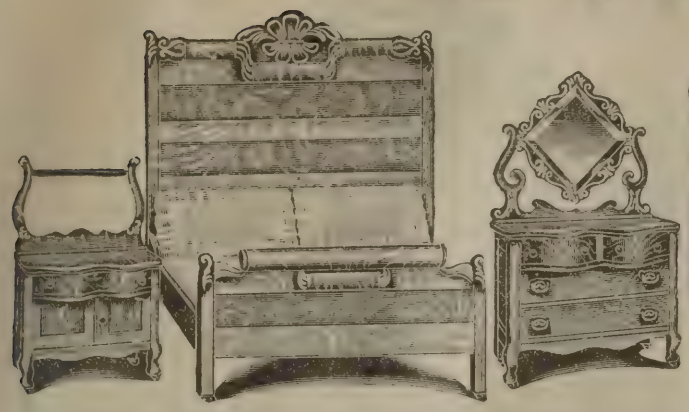
The Dresser is 45 in. wide and 22 in. deep front to back and is practically all quarter sawed oak. The heavy serpentine drawers have heavy brass pulls and good locks. The top is shaped to correspond with the drawer fronts. The upper drawer and top of Commode correspond with the Dresser in every way. The mirror in the Dresser is of the richest French plate glass, of a very attractive pattern with heavy beveled edges and measures 30 ins. wide and 24 in. high. The splasher rack on the Commode is attractively carved. The base is shaped to correspond with that of the Dresser. The legs are of French style. The ends are made of 3 ply panels. All pieces are carefully packed and will arrive unmarred. The cabinet work is unusually high grade. All drawers are smoothly finished inside and out, carefully fitted to slide readily without sticking or binding, full dovetailed construction both front and back, which prevents loosening or breaking. Three coats of the best varnish carefully administered by skilled finishers bring out the richest golden gloss finish obtainable. Weight, 350 lbs.

Read our guarantee of absolute satisfaction. It means money back if goods are not exactly as represented.

Price, Complete as illustrated..... $29.40
Price, Bed only..... 10.35
Price, Dresser only..... 15.00
Price, Commode only..... 4.65

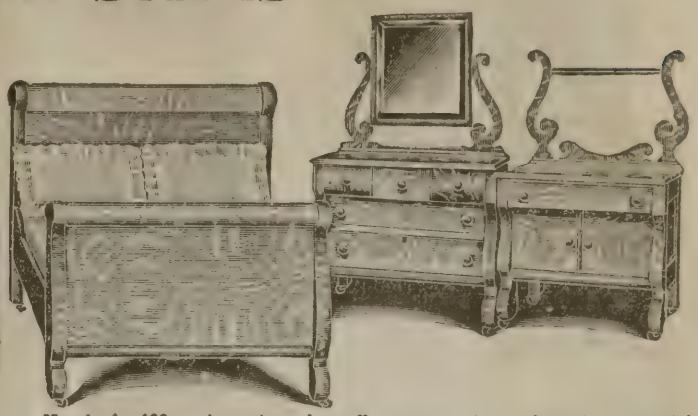
Note: See pages No. 399, 400 and 401 for springs, mattresses, pillows, etc. for these suits.

BED ROOM SUITES



No. 1-A-471. This handsome Colonial American quartered oak suite is finished in a rich golden gloss. The bed is 5 ft. 10 in. high and 4 ft. 6 in. wide; the dresser top is 43 in. long and 21 in. wide, the bevel mirror is 18x18 inches square; the top of the commode is 33x19 in. Both head and foot of the bed are nicely paneled and mounted with massive rolls and hand carvings. The mirror frame and standard of both dresser and commode match the bed in design. All upper drawers have serpentine fronts. All drawers being carefully fitted and extremely well put together. You will be surprised at the attractiveness and unusual quality for our price. Weight, 300 lbs.

Price, complete..... **$18.60**



No. 1-A-460. An extremely well constructed and beautiful Colonial reproduction. Can be furnished in handsome American golden quarter sawed oak or a rich mahogany finish. The bed is of Napoleon type, with heavy head and foot rolls and scroll feet to match dresser and commode feet and standards. The dresser is 40 in. long and 20 in. wide and contains three small and two large drawers as illustrated. The French bevel mirror is 24x20 in. Seasoned stock, high grade varnishes and excellent workmanship throughout assure perfect satisfaction. Weight, 33 lbs.

Price, complete, either finish..... **$24.50**

No. 1-A-472. The dresser of this suite is 42 in. long and 22 in. wide. The French plate mirror measures 24x30 in. The bed is 6 ft. 9 in. high and 4 ft. 6 in. wide; the commode is 33 in. wide. The entire suite is made throughout of the choicest figured oak perfectly seasoned and finished in a rich golden. All three pieces have attractive hand carved ornamentations. The bed has heavy roll at head. All upper drawers have full swell fronts. All drawers are fitted with good locks, key plates and pulls. No necessary features have been neglected. Value, $40.00. Weight, 350 lbs.

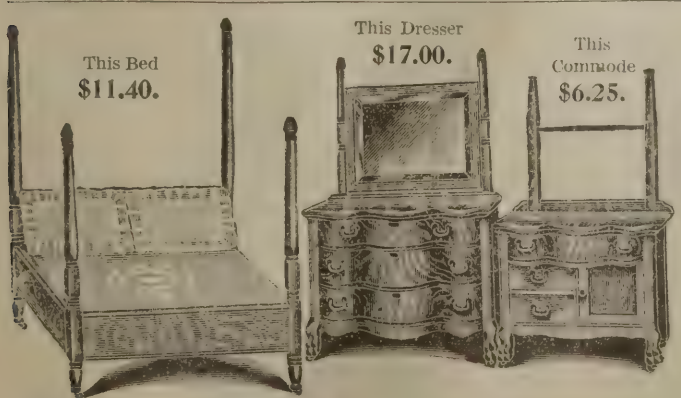
Price..... **$26.65**

ALL SUITES AND PIECES ON THIS PAGE ARE SHIPPED FROM SOUTHERN INDIANA.

No. 1-A-473. This bed room suite is of the choicest lumber, polished to a piano finish. All drawers are carefully fitted, smoothly finished and have extra grade hardware. The bed has beautiful 4 in. rolls at both head and foot and is 4 ft. 6 in. wide. All drawers have full serpentine fronts. The dresser has a shaped top measuring 44x22 in. The French bevel plate mirror measures 28x22 in. The commode matches the dresser perfectly and is 33 in. long and 20 in. wide. All pieces have dainty French legs. Weight, 340 lbs. Chicago Freight.

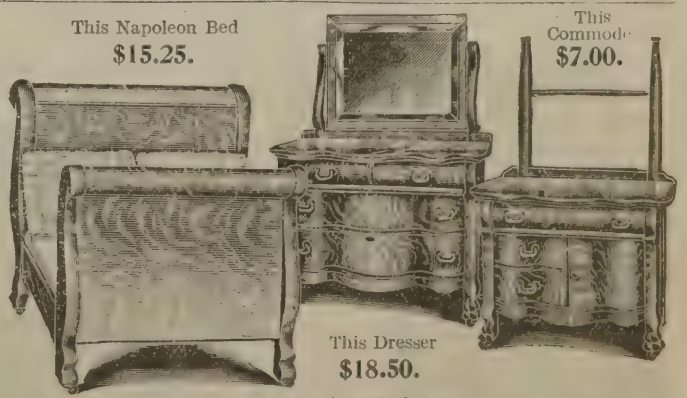
Price, selected quarter sawed golden oak..... **$30.40**
Cuban striped mahogany or birdseye maple..... **35.75**

NOTICE—Chiffonier No. 1-A-168 on page 391 matches this suite.



No. 1-A-462. A very high grade Colonial suite, made throughout of the choicest quarter sawed oak, finished in a rich golden gloss or a dull wax. We especially recommend the latter finish. The fourposter bed is 70 in. high. The dresser is 45 in. long and 22 in. wide. The French bevel mirror is 30x24 in. The commode measures 34x19 in. The claw feet and pineapple tops are hand carved. The drawers have perfect construction, locks and brass handles. We cannot recommend this suite too highly. The bed weighs, 115 lbs., dresser weighs 165 lbs. and the commode weighs 50 lbs.

Suite, complete..... **$34.25**



No. 1-A-700. This massive and beautiful suite is finely constructed of the choicest quarter sawed oak, finished a rich golden gloss or wax. The heavy Napoleon bed is 47 in. high and weighs 165 lbs. Full width only. The head roll is of 6 inch, and the foot roll of 4 inch cross band veneer. The dresser is very large being 48 in. long and 22 in. wide. The French bevel mirror being 30 in. wide and 24 in. high. The commode is 34 in. long and 19 in. wide. The upper drawers have projecting swell fronts. The lower drawers and double top have serpentine fronts. Finely constructed by master workmen. The dresser weighs 176 lbs. and the commode weighs 60 lbs.

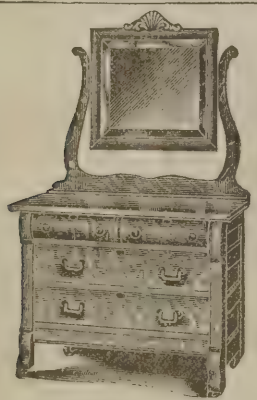
Price, complete..... **$40 00**

DRESSERS

No. 1-A-89. This dresser is extremely well made throughout. It is constructed of selected northern hardwood, properly finished in a rich golden gloss. All drawer fronts are equipped with brass hardware and good substantial locks. The top of dresser is 40 inches long and 18 inches wide. The back is finished with a French beveled plate mirror, 24 inches wide and 20 inches high. Has richly paneled ends. Drawers are smoothly finished inside and out. Although this is not the highest grade dresser, yet it is so constructed that it will please anyone and give an excellent amount of service. We recommend it as an exceptional value. Weight, 105 lbs.
Price, each.....**$6.95**
Shipped from Southern Indiana.

No. 1-A-90. This dresser is made of solid oak, finished in a rich shade of golden. It is constructed in a first class manner along simple, yet tasty lines. It is adorned with raised carvings. has French shaped legs. Top is 44 inches in length and 21 inches in width. French bevel plate mirror measures 30 x 24 inches. Weight, 120 lbs.
Price, each.....**$9.55**
Shipped from Southern Indiana.

No. 1-A-91. This elegant dresser has a shaped top 45 inches long and 22 inches front to back. All drawers are smoothly finished inside and out. They are carefully fitted and will run properly without sticking or binding. The hardware and locks on drawers are heavy brass and will give excellent service. Note the hand carved claw feet and large paneled ends. The French beveled plate mirror is 30 inches wide and 24 inches high. The construction throughout is absolutely first-class, and the entire piece is profusely ornamented with rich clean cut hand carvings. Made of quarter sawed oak, finished with 3 coats, rich golden gloss. The entire front is in the serpentine shape. Weight, 130 lbs.
Price, each....**$13.25**



No. 1-A-92. This dresser is made of American quarter sawed oak, finished golden. Top is 42 inches in length and 21 inches wide, front to back. Extra quality plate mirror, size 24 inches long and 20 inches high. All drawers are perfectly fitted and will work easily without binding or sticking. Good quality locks and heavy brass trimmings. Simple, heavy colonial style legs. One of the best bargains ever offered at the price. Weight, 115 lbs.
Price, each.....**$8.55**

All Dressers on this page are shipped from Southern Indiana.

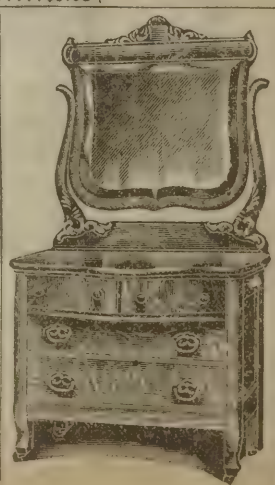
No. 1-A-93. In presenting this dresser, we wish to call your attention to the fact that it is the best value on the market at the price. The construction throughout is absolutely first class and such as you will find on the higher priced designs. It is made of American quarter sawed oak, finished golden. Has large lower drawers and spacious upper drawers, the latter being of the serpentine front type. Has shaped top which is molded at the edge. French beveled plate mirror is 24 inches wide and 20 inches high. Each end has three panels. The drawers are perfectly fitted and equipped with strong locks and handsome brass trimmings. Weight, 145 lbs.
Price, each.....**$9.85**

No. 1-A-94. This high grade solid oak dresser is made of figured stock, finished in a rich shade of golden. It has a shaped top, 42 inches in length and 20 inches in width. The French beveled plate mirror is 30 inches wide and 24 inches high. Top, corners and upper frame are tastily and neatly carved. It is of first class construction throughout. This is an article you must see to fully appreciate. Weight, 140 lbs.
Price each.....**$10.25**
No. 1-A-94½. Same dresser as above with exception that mirror measures 24x20 inches. Weight, 130 lbs.
Price, each.....**$9.05**

No. 1-A-1. This solid oak Dresser is made of the best stock throughout and finished in a rich shade of golden. It is finely constructed and beautifully finished. All ornamentations are hand carved. Has French beveled plate mirror, 28x22 inches. Upper divided drawers have swelled fronts. The top is 42 inches in length and 21 inches in width. Weight, 140 lbs.
Price, each.....**$11.40**

No. 1-A-2. This dresser is made of quarter sawed oak, finished golden. Notice the full serpentine front and double thick top with moulded edge. Neatly carved at bottom and on mirror frame. Top is 42 inches long and 23 inches wide. Has French beveled plate mirror, 30 inches high and 24 inches wide. All drawers have grooved shelves and are extremely well constructed and finished inside. An exceptional value in every way. A pretty piece of bedroom furniture. Weight, 165 lbs.
Price, each.....**$12.25**

No. 1-A-3. This dresser represents a first class piece of high grade cabinet work and is made along pleasing lines, such as will equal the expectations of the most critical purchaser. The top is 45 inches long and 22 inches wide, (front to back). Extra heavy quality French beveled plate mirror is 30 inches wide and 24 inches high. It is made of selected quarter sawed oak finished golden and is hand rubbed and polished to the highest luster. Strong durable locks. Weight, 150 lbs.
Price, each.....**$15.85**



No. 1-A-4. This solid oak dresser is finished in a rich golden quarter sawed effect. The top is 42 inches long and 22 inches deep (front to back). Has an extra quality French beveled plate shield design mirror 30x24 inch. The top has moulded edge. The construction of the interior is first grade in every respect. Profusely ornamented with deep cut hand carvings. French shaped legs. Weight, 140 lbs.
Price, each, **$13.60**

DRESSERS

No. 1-A-372. This handsome Dresser is made of quarter sawed white oak, finished in a rich shade of golden. The heavy top is shaped and beautifully moulded. Serpentine shaped drawer fronts, fitted with heavy brass pulls, key plates and substantial locks. All drawers are fitted snugly, yet operate smoothly without binding. French shaped legs project from base, terminating into hand carved claw feet. Top is 45 inches long and 22 inches deep (front to back). The large center mirror is 30 inches high and 18 inches wide. The swinging mirrors at the sides each measures 24 by 8 inches. Weight, 182 lbs. Shipped from Central Indiana. Price, each.**$15.40**

No. 1-A-273. This Colonial Type Dresser has a full serpentine front with rounded edge to correspond. Has extra heavy base and French shaped legs. The drawer construction is absolutely perfect. They are each fitted with individual locks and heavy brass stamped hardware. Dresser is 45 inches wide and 42 inches deep (front to back) feet high and weighs 150 pounds. Is made of quarter sawed oak finished golden. Extra quality French beveled plate mirror which measures 30 inches wide and 24 inches high. Shipped from Southern Indiana. Price, each **$17.25**

No. 1-A-220. Colonial Dresser, made of selected solid oak, finished in a rich golden quartered effect. Top is 46 inches long and 22 inches deep, (front to back.) Has a French beveled plate mirror, 24 inches high and 30 inches wide. Frame is nicely ornamented. Heavy roll top, attractively hand carved. Spacious drawers, finely constructed and finished inside. Positively will not bind or stick. Fitted with finest hardware. Notice the many costly details. Shipped from Southern Indiana. Weight, 170 lbs.
Price, each.....**$17.00**

No. 1-A-348. This Dresser is made of quartered oak finished golden. It is extra large size and has a double thick top with moulded edges. 46 inches long and 22 inches deep, front to back. The mirror, which is of extra quality French beveled plate, is 30 inches wide 24 inches high, and perfectly proportioned. It is tastily ornamented with rich deep clear cut carvings. Weight, 180 lbs. Shipped from Southern Indiana. Price, each **$18.15**

No. 1-A-348½ Same as above with 28x34 in. French beveled plate mirror **$22.50**

No. 1-A-251. Chicago Freight
This Dresser is 42 inches long and 22 inches deep (front to back.) It has a French beveled plate mirror 28 inches high and 22 inches wide. Entire construction choicest quality quarter sawed oak, finished golden. Also have a few in Cuban striped mahogany and bird's eye maple. Ends are in one continuous panel. All drawers are fitted with wood knobs and individual locks. Note the two half sized drawers at top and two large drawers beneath.
Price each, Golden oak **$16.50**
Price each, Cuban striped mahogany or bird's eye maple. Chicago Freight **$17.75**

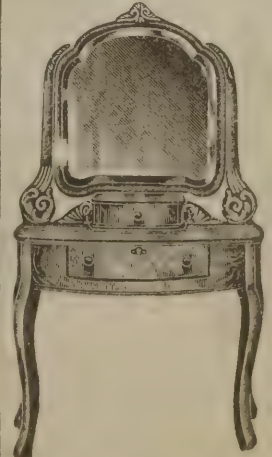
No. 1-A-252. This Dresser has a French beveled plate mirror 30 inches wide and 24 inches high. The wood used in its construction is of the finest quality. Nothing but the most selected of richest figured quarter sawed oak and mahogany is used in its manufacture. Has extra thick top with a finely moulded edge. The veneering on this dresser shows up the great beauty of the natural woods to their fullest extent. Weight, 165 lbs. Chicago freight.
Price, each, Quarter sawed oak **$23.50**
Price, each, Cuban striped mahogany..... **24.00**

No. 1-A-338. Dressing Table. Faithful reproduction of an early Colonial piece. Made throughout of finest quarter sawed oak, beautifully finished in a rich shade of golden. We also have a few of these dressing tables in mahogany dull or polished finishes. Top of table is 36 inches in length and 21 inches deep, front to back. The extra quality French beveled plate mirror is 26 inches wide and 22 inches high. The standards, legs and base, including mirror frames, are of richly curved design. Cabinet work is absolutely the very finest and highest grade throughout. Weight, 125 lbs. Price, of quartered oak or mahogany **$11.40**

Shipped from Southern Indiana

No. 1-A-327. This Dressing Table is made of finest quarter sawed oak, hand rubbed and polished to a mirror-like brilliancy. It is finished in a rich shade of golden. Top is 34 inches wide and 18 inches deep, front to back. Extra quality beveled plate mirror is 18 x 24 inches. Has carved claw legs. Note the full swell front drawer. One of the most attractive designs ever offered at the price. Weight, 100 lbs. Shipped from point of purchase in Southern Indiana.

Price, each.....**$10.00**



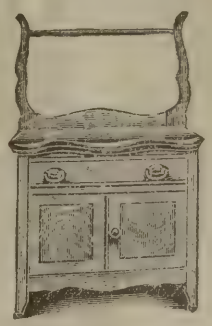
No. 1-A-328. This beautiful Dressing Table is water rubbed and hand polished to a mirror-like brilliancy. The frame is made of selected quarter sawed oak finished golden. It has shaped top 36 inches wide and 20 inches deep, front to back. The imported beveled plate mirror measures 20 x 24 inches. Top contains special small drawer for jewelry. Profusely ornamented with deep clear cut hand carvings. Weight, 115 lbs. Shipment from Southern Indiana.
Price, each.....**$13.75**

COMMODES AND PRINCESS DRESSERS

No. 1-A-356. This Washstand is made of selected hardwood, finished golden, neatly and firmly constructed. Top is 24x16 in. Contains one drawer, towel rack at each end and a shelf below. Weight, 25 lbs. **$1.65**

No. 1-A-221. Commode; simple Colonial design, well made of American quartered oak throughout, finished golden. One large drawer and double door cupboard. Length, 32 in.; width, 18 in. Entire construction is good. Weight, 50 lbs. **$3.25**

No. 1-A-221½. An excellent golden finished, hardwood commode, with top 16x29 inches. Paneled doors and upper drawer front of specially figured stock. Excellent construction. Weight, 50 lbs.
Price..... **$3.00**

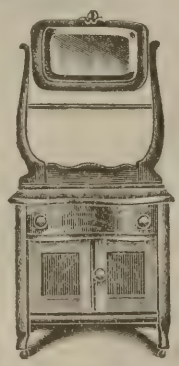


No. 1-A-223. Well constructed golden hardwood Commode; built along simple, yet clean, strong lines. Double panel door and one drawer with brass pulls. Size of top 19x34 in. Weight, 55 lbs.
Price, each..... **$3.20**

No. 1-A-222. Golden oak Commode; 33 in. long and 17 in. wide. Full width upper drawer. Double door panel cupboard. Construction is first-class in every respect. Weight, 85 lbs. Price, **$4.40**

No. 1-A-222½. Same, with high mirror toilet, French beveled plate glass, size 24x 14 inches. Price..... **$7.75**

No. 1-A-355. This Commode, can be furnished in American quarter sawed oak or mahogany finish. Top is 32 in. in length and 19 in. deep. Note the swell front upper drawer, scroll feet, symmetrically proportioned. One of the best as well as most attractive commodes ever offered at so moderate a price. Wt., 60 lbs. **$4.65**



No. 1-A-359. This Commode is made of selected oak. Top is 35 in. wide, 19 in. deep. Has French bevel plate mirror, 24 in. wide and 14 in. high. Swell front upper drawer. Weight, 100 lbs.
Price..... **$6.80**

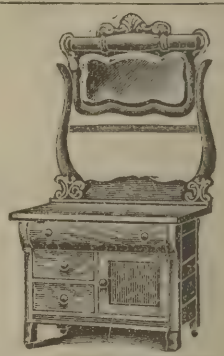
No. 1-A-359½. Same, without mirror, but with towel rack. Price,.... **$4.50**

No. 1-A-420. This Commode is of the very highest workmanship and quality. The top is 33 in. long and 28 in. wide. Highest polish. Weight, 75 lbs.
Price, quartered oak...**$6.50**

Price, genuine Cuban mahogany or bird's eye maple, **$7.50**

No. 1-A-364. American quarter sawed oak Commode, richly ornamented. Top is 24 in. long and 19 in. deep, mirror 24 in. wide and 14 in. high. The upper drawer is full swell. Weight, 100 lbs.
Price..... **$6.75**

No. 1-A-364½. Same as above with splasher rack instead of mirror back.
Price..... **$5.30**



No. 1-A-224. Princess Dresser, made of golden American quartered oak. Absolutely first class. Base is 42 in long and 22 in. wide. Oval French beveled mirror, 36 in. high and 18 in. wide, hand carved. Wt., 125 lbs.
Price, each..... **$9.40**

No. 1-A-234. This Princess Dresser is made of seasoned quarter sawed oak, finished golden. Has two upper serpentine front drawers and large deep drawer below. Shaped top, measuring 43 in. long and 22 in. wide. Has an extra quality, oval French beveled mirror, size 36x18 in., deeply carved. Wt,, 125 lbs.
Price..... **$11.75**

No. 1-A-235. A Princess Dresser of the highest grade quarter sawed oak throughout, finished a rich golden. Top 40x20 inches. French beveled mirror 36x18 inches. Small jewel drawer on top. Study illustration carefully. Weight, 150 lbs. Price. **$17.00**
Price, without jewelry drawer..... **15.85**

No. 1-A-207. Colonial Design Princess Dresser, made on the most simple and dainty lines. Extra heavy top 40 in. long and 22 in. wide. Has oval shaped French beveled plate mirror 36 in wide and 18 in. high. Full swell front with shaped top to correspond. French shaped legs, easy sliding drawers fitted with individual locks and brass trimmings. Workmanship is absolutely the finest, and the matching of the grain is the most perfect. All woods are hand rubbed and polished to a high luster. Price each.
Quartered oak..... **$14.40**
Price, each. Mahogany or bird's eye maple, **$15.00**

No. 1-A-208. This Princess Dresser has a top 34 in. long and 20 in. deep (front to back). Has latest pattern French beveled plate mirror 36 in. high, and 18 in. wide. The standards, mirror frame, top posts, and legs are rounded to harmonize properly with the serpentine drawer fronts. Neatly carved. Construction absolutely the best. Hand rubbed and polished to the highest luster.
Price each. Quartered oak..... **$12.30**
Price each. Genuine mahogany..... **13.50**
Price each. Finely figured bird's eye maple, **13.50**

All items on this page, except Nos. 1-A-420, 1-A-207 and 1-A-208, are shipped from Southern Indiana.

CHIFFONIERS

No. 1-A-26. This Chiffonier is designed along simple Colonial lines. It is constructed of American quartered oak, finished golden. The base contains five drawers, the upper one being of full swell type. All drawers are smoothly finished and slide without sticking or binding. Are equipped with locks and ornamented brass handles. Size of top is 34 inches by 21 inches. Has a French beveled plate mirror, measuring 24 inches wide and 14 inches high, nicely ornamented with deep hand carving throughout. Weight, 130 lbs

(So. Indiana Shipment)

Price, as illustrated.....**$8.85**

No. 1-A-26½. Same as above except with highly ornamented wood back in place of mirror. Top drawer has straight front.

Price,.....**$5.25**

No. 1-A-150. The Chiffoniers in this lot can be furnished in either quarter sawed golden oak or selected Cuban mahogany. We also have a few in bird's eye maple. They are all highly polished to a piano luster. Size of mirror 20 x 16 inches. Size top 33 x 20 inches. Nothing but the very finest stock is used in their manufacture. All drawers have deeply swelled fronts. Absolutely highest grade. Brass trimmings, substantial locks. Weight, 130 lbs. Chicago freight.

Price, quarter sawed oak.....**$13.45**

Price genuine mahogany or bird's eye maple..... **15.00**

No. 1-A-151. This extra large Chiffonier will prove a welcome addition to any bed room. The design is shapely in appearance, and as a whole, is a most attractive piece of furniture. The chief beauty of this piece is in the wood used in its construction, it being made of the finest and choicest golden quarter sawed oak throughout, hand rubbed and polished all over to the highest luster. Size of top is 36x20 inches. Has French beveled plate mirror, 24 inches wide and 14 inches high. Note the clean cut hand carvings on this piece. Fitted with locks and cast brass ornamented handles. Weight, 150 lbs.

Price, So. Indiana shipment.. **$17.00**

No. 1-A-154. This special bargain in a high grade, quarter sawed oak Chiffonier, is the best value on the market at the price. It is finely constructed of choicest selected wood, finished golden. The French beveled plate mirror is 18 inches long and 12 inches high. Size of top is 33 inches by 22 inches. Base contains four large full sized drawers and two divided drawers at top. All drawer fronts of full serpentine shape, so extensively emphasized in high priced furniture. Deeply carved throughout. Smoothly finished drawers, substantially put together, sliding easily without sticking or binding. All drawers are fitted with locks and brass handles. The ends of this chiffonier are made of selected three ply plain oak. Weight, 142 lbs.

Price,.....**$10.65**

No. 1-A-153. This serpentine front Chiffonier is 36 in. wide and 20 in. deep, front to back. It has an extra thick French plate glass mirror, oblong in shape, 24 in. wide and 14 in. high. Shaped colonial legs, conformed to the general contour of the design. The front is made of figured, quarter sawed oak, finely finished in a golden gloss. Two medium sized drawers at top. Four full size drawers below. Fitted with brass handles and substantial locks. This chiffonier was made by a manufacturer noted for his production of costly furniture. Weight, 150 lbs.

Price,.....**$11.75**

No. 1-A-152. The description of No. 1-A-167 chiffonier will cover this piece very clearly with the possible exception that there is more workmanship on this piece. It is also elevated a little more than the design referred to above. The top and drawer fronts are of double swell type. It is an unusually attractive piece of handsomest wood and polish. It is a purely distinctive type, being much more pleasing than those usually offered. Weight, 130 lbs. Chicago freight.

Price, each, quarter sawed oak **$15.00**

Price, each mahogany or bird's eye maple..... **16.25**

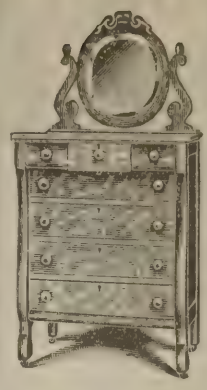
No. 1-A-155. We have just sixty Chiffoniers of the type illustrated here with left in stock. The design is an exact reproduction of an antique Colonial piece. It is made of American quarter sawed oak, finished golden. It is nicely carved throughout. It has five drawers which vary in depth. They are all perfectly fitted and will slide without binding or sticking. Nothing but first class locks and brass handles used as trimmings. Note the hand carved claw feet, shaped standards and rounded, projecting drawer. Note the scroll standards, and roll base. Top measures 36 x 20 inches. French beveled plate mirror measures 24x14 inches. Weight, 150 lbs.

Shipped from So. Ind.

Price,.....**$11.75**

No. 1-A-156. This full swell front, solid oak Chiffonier is finely finished in a rich golden quarter sawed effect. Size of top 35 in. wide and 19 in. deep. Has a French beveled plate mirror 24 ins. wide and 14 ins. high. The base contains a hat compartment, two small drawers for collars, cuffs ties, etc., and two roomy drawers for general haberdashery. French shaped legs. Good locks on all drawers and first class interior construction. This is a piece of furniture that will meet with your utmost approval. Weight, 130 lbs. So. Indiana shipment. Price.....**$13.90**

No. 1-A-157. Quarter sawed oak Chiffonier, finished in a rich shade of golden, hand rubbed and polished throughout. Top is 36 inches wide and 20 inches deep, front to back. This chiffonier being constructed of the finest selected wood, is one of the handsomest pieces of bed room furniture of its type obtainable. Its severe outlines are easily recognized as pure Colonial. Note the rounded cross band veneer mirror frame, elegantly carved supports. All drawers are finely finished inside and perfectly fitted. Knobs are of wood. Best quality locks. Exceptional value. Shipped from Southern Indiana. Weight 175 lbs. Price,.....**$17.50.**



No. 1-A-160. American quartered oak Chiffonier, made of thoroughly seasoned, choice grained stock, finely finished, in golden oak or imitation mahogany. Top is 34 ins. wide and 20 ins. deep (front to back). It is fitted with extra quality French heavy beveled plate mirror of oval design, 20 in. high and 16 ins. wide. Base has three small drawers, one being plain, other two having rolled fronts. Also has three large drawers with wood knobs. This is one of the handsomest patterns we have in sock. We recommend this chiffonier to anyone wishing a thoroughly pleasing and substantial article at any price. Usual cost of this piece in a retail furniture store would be $20. Weight, 115 lbs. Shipped from Southern Indiana.

Price.....**$11.65**

No. 1-A-159. American quarter sawed oak Chiffonier, golden finish, full swell front upper drawer, attractive Colonial design legs. Fine panel sides, five large drawers in base, broad roll mirror frame, neatly carved. Extra quality French beveled plate mirror, size 24x14 inches. Size of top 33x19 inches. Weight, 130 lbs. Shipped from Southern Indiana.

Price,.....**$11.10**

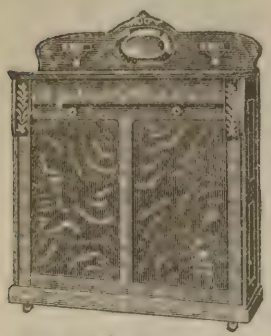
No. 1-A-158. This Colonial design chiffonier is one of the finest pieces of its kind manufactured. It has a French beveled plate mirror measuring 20 x 16 inches. It has swell top drawer shaped standards and Colonial feet. All drawers are equipped with wooden knobs. Representing the highest grade cabinet work. Finely finished both inside and outside. Size of top 34x21 inches. Our prices are fully $10 under the regular retail prices. Can be furnished in golden highly polished or in popular rubbed wax finish. We also have a few in Cuban striped mahogany in polished or dull wax finish Weight, 150 lbs.

(Chicago Freight.)

Price, quarter sawed oak **$20.40**

Price, Cuban mahogany **21.65**

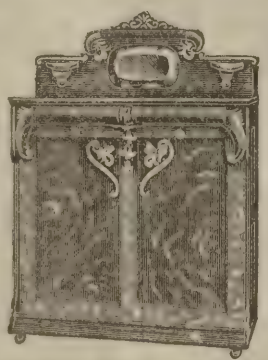
Mantel and Upright Folding Beds



No. 1-A-188. This folding bed, while not an extremely high priced article, is perfectly made and finely finished. Material throughout is of selected figured plain oak, finished golden. Note the two large three-ply panels in front, deeply carved. Has French beveled plate mirror in the top, measuring 14 inches wide and 8 inches high. Two small drawers at the back. Spring or inside measurement is 48 inches wide and 74 inches long. It is a most comfortable as well as an attractive piece of bedroom furniture. It is fitted with high grade oil tempered spiral support with heavy woven wire spring; equipped with high grade casters. Weight, about 275 lbs. Price, each **$11.50**

No. 1-A-190. Selected figured oak mantel folding bed. Golden gloss finish. Although not especially elaborate in design, beauty of the wood makes it an elegant bed. The bed has two quarter sawed panels, each heavily framed in. Top is richly ornamented with hand carvings and is fitted with a French beveled plate mirror, size 10x10 inches. It has two shelves, and many other attractive features can be noted by studying illustration. Has heavy woven wire springs with a center oil tempered coil spring support. When open for use as a bed it is 74 inches long and 48 inches wide. Weight, 275 lbs. Price, each.....**$15.50**

No. 1-A-191. This handsome mantel folding bed is made of figured solid oak and has two front panels. Each are perfectly matched in graining. These panels show up quarter-sawed oak in all its beauty. Hand carved floral and scroll ornaments. Has a golden gloss finish, fine veneer top roll. The French beveled plate mirror measures 10x17 inches. Two ornamented shelves on back. Guaranteed woven wire coil spring with reinforced support. Standard weight and size. Price, each.....**$15.90**



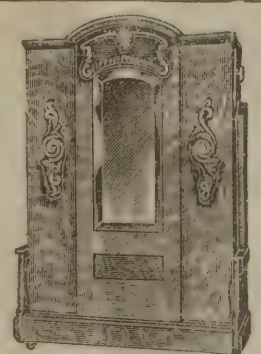
No. 1-A-239. This high grade folding bed has a finely beveled plate mirror of the finest quality, measuring 40x18 inches. The front is exceedingly rich in appearance, having two beautifull figured panels, surmounted with brass knobs and profusely adorned with deep clear cut, hand carved ornamentations. Back has two small shelves of attractive design. The quarter sawed oak, used in the construction of this bed, is especially selected and being hand rubbed and polished all over to a mirror-like brilliancy, gives this piece the appearance of designs that you would ordinarily pay $50.00 to $60.00 for, in a retail store. The extra quality woven wire fabric is supported in the center by an oil tempered coil spring construction. This bed requires a mattress 72x48 inches. (See page 400) Weight, 275 pounds.
Price.....**$19.00**

No. 1-A-192. This high grade mantel folding bed is designed, as you will note, to represent a high grade dresser. Is made of choicest quarter - sawed oak throughout, finished golden. Has a swinging French beveled plate mirror 28 inches wide and 16 inches high. Hand carved top and standard. Front of bed contains two large panels with projecting center representing 4 full swell front drawers fitted with brass knobs and extension roll base to correspond with sides. Perfectly executed floral carvings, around beautiful figure representing a Grecian Head. Hand rubbed and polished to the highest possible finish. Best of spring construction. Standard size and weight.
Price.....**$23.50**

No. 1-A-189. This folding bed has a high grade oil tempered spiral support woven wire spring. When open for use as a bed it is 48 inches wide and 72 inches long. Height when upright, about 5 feet. It has beautiful French beveled plate oval mirror 20 inches wide and 12 inches high. Has deeply carved ornaments at top. Heavy rolls. Has a broad extension base and two panels at each side which conform in design to the heavy shaped top. It is made of quarter sawed oak, finished golden, and highly polished. The graining of the wood used in its construction is unusual, as you will find it seldom exceeded in beauty in even the highest priced designs. Weight, about 275 lbs. Price.....**$24.50**

No. 1-A-235. This upright folding bed is equipped with an automatic safety lock and many other features found only in the costliest designs. It is made of solid oak, finished golden. Handsomely paneled front and embossed top. Note the clean cut, hand carved ornamentations. Has a French beveled plate mirror, 40 inches in height and 18 inches in width. The extra quality woven wire fabric is supported in center by an oil tempered coil spring construction. Please note that the automatic lock prevents any possibility of bed folding up accidentally. This bed requires a mattress 73x51 inches. (See page 400) Weight, 400 pounds.
Price, each.....**$21.85**

No. 1-A-236. This beautiful upright folding bed represents a piece of master workmanship. It has selected quarter sawed oak panels in front and is profusely adorned with beautiful hand carved ornamentations. Has a 40x18 inch bevel plate French mirror. The extra quality woven wire fabric is supported in center by an oil tempered coil spring construction. This bed requires a mattress 73x51 inches. (See page 400) Weight, 400 pounds. The weights take a very low freight rate. Price each.....**$24.50**

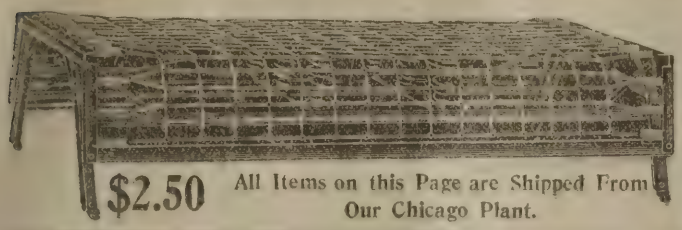


No. 1-A-237. Splendid, upright folding bed, quarter sawed oak front, finished golden, hand rubbed and polished. Has arched top, projecting legs and heavy rolls at sides. Deep, clear cut, hand carvings. 18x40 inch beveled plate French mirror. The extra quality woven wire fabric is supported in center by an oil tempered coil spring construction. This bed requires a mattress 73x51 inches. (See page 400) Weight, 400 pounds.
Price, each **$28.25**

No. 1-A-238. One of the prettiest and most elaborate folding bed ever constructed. It is made of quartered oak, golden finish, hand rubbed and polished. Has automatic safety lock. Note the clean cut, hand carved ornamentations. French bevel plate mirror measures 18x40 inches. The extra quality woven wire fabric is supported in center by an oil tempered coil spring construction. This bed requires a mattress 73x51 inches. (See page 400) Weight, 400 pounds. Regular retail price of this design is $50.00 as you can readily ascertain by comparison with retail store prices.
Price, each.....**$34.00**

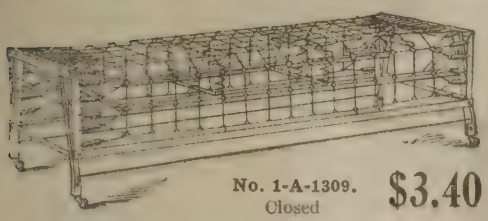
All beds on this page are shipped from Southern Indiana.

Sanitary Couches, Davenports and Cots

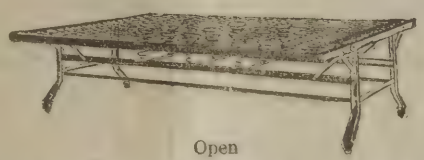


$2.50 All Items on this Page are Shipped From Our Chicago Plant.

No. 1-A-1038. This Sanitary Couch is one of the most practical articles ever devised. Can be utilized as a window seat or library rest by covering it with denim or some such similar covering. We advise a couch cover such as you will find illustrated and described in our color type section. This couch opens and folds by simply lifting either side. It measures 74 in. in length and 50 in. width, when open for use as a bed. It may be opened at the back and dropped at the front if so desired. High grade steel spring wire fabric comprises the spring or bed top. This fabric is supported at each end by 15 helical steel springs. Underneath the center are 6 oil tempered coil springs, which prevent sagging in the center when used by a heavy person. Has a handsomely gilded angle steel frame, rigidly built, which is guaranteed not to loosen. The spring fabric will positively not pull out, rust, sag or get out of shape. Usually sold at $4.00 or $5.00. Weight, 55 lbs. Shipped K. D. as illustrated below. Price, each.....**$2.50**

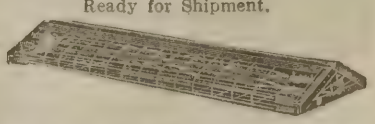


No. 1-A-1309. Closed $3.40

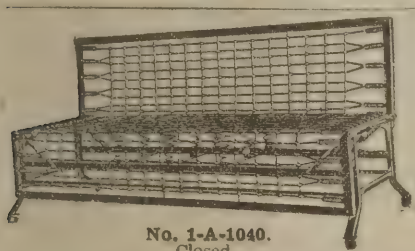


Open

Ready for Shipment.

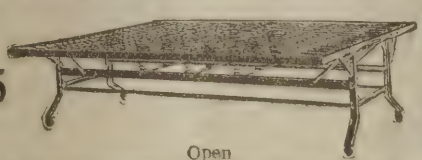


No. 1-A-1039. This Sanitary Steel Couch is of the drop side pattern and very similar in type to the style described above. It is, however made with a heavier steel frame throughout, and has better quality and more closely woven top fabric of special design, fastened at each end with 24 helical springs, or 42 in all. It is reinforced at the center with 12 coil springs instead of 6 as in above design. Both sides drop down. Equipped with high grade casters. It is 73 in. long and 25 in. wide when closed and 50 in. wide when open. The first illustration shows this couch with sides dropped down as a window seat. The second design shows same open for sleeping purposes. The third illustration shows this couch folded for shipment in a compact package which usually reduces the freight charges more than one half and insures safe delivery. Weight, 65 lbs. Price, each **$3.40**



No. 1-A-1040. Closed $3.95

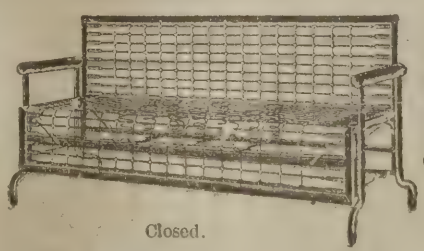
With one or two of these couches you are always prepared for any emergency, such as the unexpected visit of friends, etc.



Open

No. 1-A-1040. This Sanitary Davenport is designed to be used as a davenport during the day and as a bed at night. Frame and construction are identically the same as described above. The back however, instead of dropping, raises as shown in the first illustration. When used as a davenport the seat is 22 in. wide. One or two of these couches should be in every home, as they are attractive, as well as economical space savers, and with them you will always be prepared for unexpected visitors. Weight, 67 lbs. Price, each.....**$3.95**

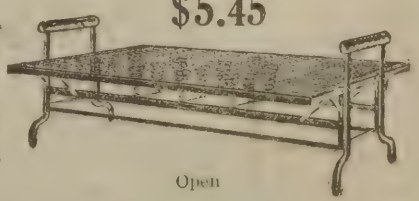
No. 1-A-1041. This Davenport has the same high grade construction as No. 1-A-1040 with the addition of gilded pipe legs and arms in one continuous piece. This frame being made without joints, positively will not loosen or come apart. The upper portion of the arms is covered with a broad wood arm, in golden oak or mahogany finish, highly polished, as preferred. We will also supply weathered oak or early English wood arms without extra charge. This is a high grade piece of parlor furniture, and will prove a convenient as well as practical article in every home. Length 72 in., width when open as a bed 53 in., and width of seat when used as a davenport 22½ in. Weight, 80 lbs. Price, each.....**$5.45**



Closed.

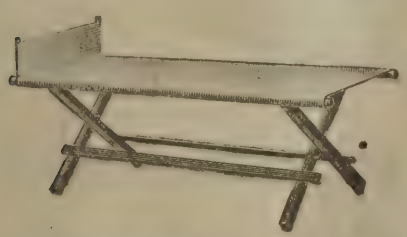
Indispensable to every home. Convenient and practical.

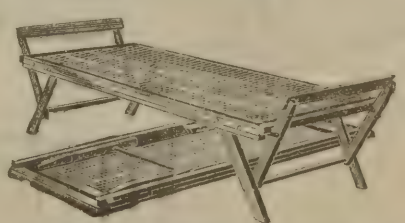
$5.45



Open

Special Prices on Cots in Wholesale Quantities





No. 1-A-1042. This canvas Cot is of cross leg construction, fastened together at the folding points with heavy bolts. It measures when set up for use as a bed 24 in. high, 27 in. wide and 6 ft. long. The covering is of heavy quality high grade duck, turned over at one end to permit entrance of a pillow. This is fastened with brads and will not tear loose, nor are there any points to catch in the clothing. Frame is made of 1⅜ in. hardwood, smoothly finished. No splinters. Weight, 29 lbs.

Price, each **$1.15**

No. 1-A-1043. This all steel Cot is positively the finest cot one could wish for ordinary purposes. The finest quality oil tempered angle steel, japanned black, is used throughout in its construction. The head and foot ends fold entirely under the bed portion, making a flat package 6 ft. long. Can be furnished in two widths as specified below. Has numerous oil tempered helical springs at ends and sides. The fabric is guaranteed good quality galvanized wire and will not sag or rust. Weight, 40 lbs.

Price, each, 2 ft. 6 in. wide **$2.25**
" " 3 ft. wide..... **2.55**

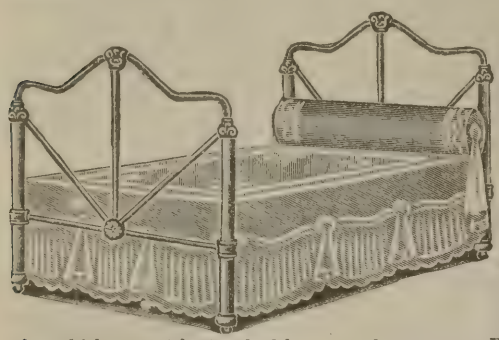
No. 1-A-1044. The "Universal" folding Cot is an ideal article for camping purposes, and because of its light weight and unusual strength, makes an ideal substitute for a bed. It is a very convenient article to have about the house. With it you are prepared for any sudden emergency, such as the unexpected call of visitors, etc. Has a heavy woven wire fabric and folds perfectly flat. Two sizes, 6 ft. by 2 ft. 6 in. and 3 ft. by 6 ft. Weight, 20 lbs.

Price, each, 2 ft. 6 in. wide **$1.10**
" " 3 ft..... **1.20**

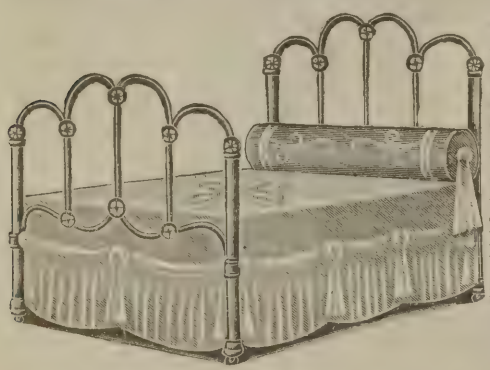
Order a pad for your Davenport or Couch. On pages No. 400 and 401 we illustrate a complete line of pads, designed especially for these davenports and couches. When ordering a davenport or couch you should always include with your order a pad, as a davenport or couch is incomplete without one. Prices are exceptionally low, and you always have the advantage of a suitable article without the bother of fitting a mattress or any such other similar contrivance to these designs. We know what is best adapted in every case, and the pads described are the most advantageous to buy. They not only fit better, but at the same time appear and wear better, than the pads which you can purchase locally.

IRON BEDS

All of the iron beds illustrated and described on this and the following pages are made of absolutely the very finest material throughout by the most experienced workmen. All beds are of the highest quality, thus insuring lasting satisfaction. Unless otherwise specified, all metal beds and cribs are shipped in white enamel colors. Any plain color, such as blue, pink, green, pea-green, dead black, etc., can be furnished without extra charge. If gold decorated chills are desired, please specify same when ordering. We make no extra charge for this but, ordinarily send, chills are of the same color as bed. Any two color combination will be furnished on any of the beds in any sizes for 65 cents additional. These prices also cover special finishes, including Vernis-Martin, Gun-metal, Ivory and Oxidized Copper. WE GUARANTEE OUR VERNIS-MARTIN FINISH NOT TO TARNISH OR FADE. When reversed rails are desired, they will be furnished upon request without extra charge. With reversed rails, wood bed slats may be used. All springs and mattresses described in this catalogue will fit all our standard widths, which are 4 ft., 4 ft. 6 in., 3 ft., 3 ft. 6 in.

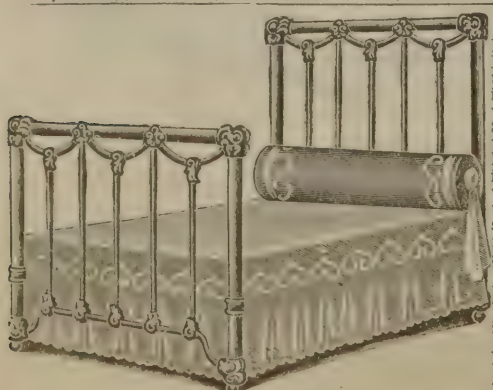


No. 1-A-400. This Iron Bed is 49 inches high at the head end and 44 inches high at the foot end. It is constructed of first class material and is certainly an exceptional value at the extremely low price placed upon it. Corner posts are ⅞ inch thick and filling rods are $\frac{5}{16}$ inch thick. We can furnish this bed in all standard colors and all widths Bed is well finished, strongly put together with heavy moulded chills and it is a value which cannot be touched by any other concern. While we recommend the purchase of a higher priced bed, yet those who do not wish to pay more than this amount, will find this bed a remarkable value for the money. Weight, (full size) 50 lbs. Price, each.....**$1.35**

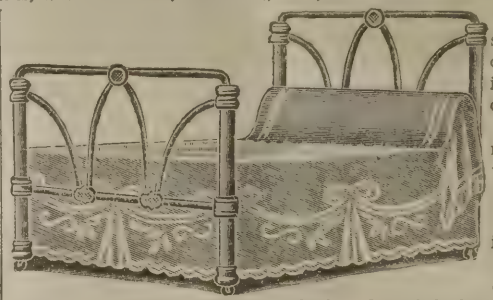


No. 1-A-402. This substantial Iron Bed is 55 inches high at the head end and 44 inches high at the foot end. Can be supplied in all the standard widths with the exception of the 3 feet size. The top and bottom rods are bent in a very attractive manner and are connected with three vertical rods with large chills at all connecting points. The general effect is one which is bound to please a critically inclined purchaser. Weight, (full size) 56 lbs. Price, each.**$2.00**

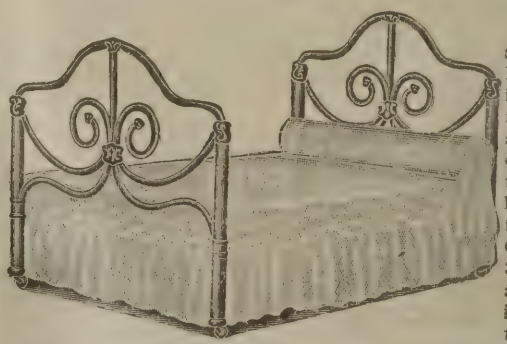
No. 1-A-300. This newly designed substantial Iron Bed has $1\frac{1}{16}$th inch pillars with half inch top rails. Size of filling $\frac{5}{16}$th inch. Head end is 56 inches high and foot end is 46 inches high. Profusely adorned with heavy chills. This bed is made by one of the best manufacturers in this country and we recommend it in every way. Can be supplied in any single color. Two sizes only; one 3 feet 6 inches or 4 feet 6 inches, Weight, 86 lbs. Price, each.....**$2.85**



No. 1-A-439. This Imperial designed Iron Bed is 61 in. high at the head end and 42 in. at the foot end. It weighs in the full size 80 lbs. The posts and upper rods of both head and foot are ⅞ inch thick. The bottom rods are ¾ inch thick. The vertical spindles in head and foot end measure about $\frac{5}{16}$ inch thick. We strongly urge the purchase of this bed to anyone wishing an attractive article of beautiful finish and proper construction. It's key notes are simplicity, elegance and refinement. It is a pattern which improves with acquaintance. Price, each **$3.40**

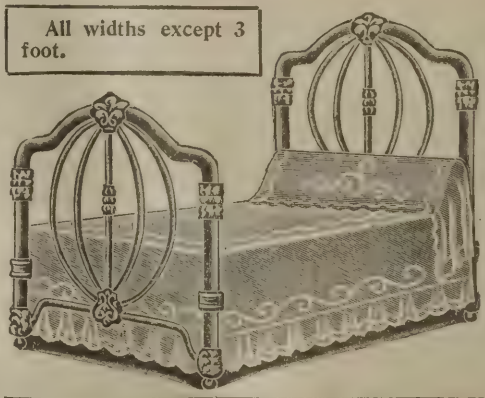


No. 1-A-433. This simple, yet tastily ornamented Iron Bed is strongly constructed of first class material throughout. It is made in rather a unique design that will appeal to all who admire the artistic. The upright pillars are ⅞ in. thick, while the balance of tubing is ¾ and $\frac{5}{16}$ inches thick. The head end is 49 in. high and the foot end 37 inches high. One of the best values on the market at the price. Can be furnished in any single color and standard widths. Weight, 53 lbs.
Price, each.....**$1.70**

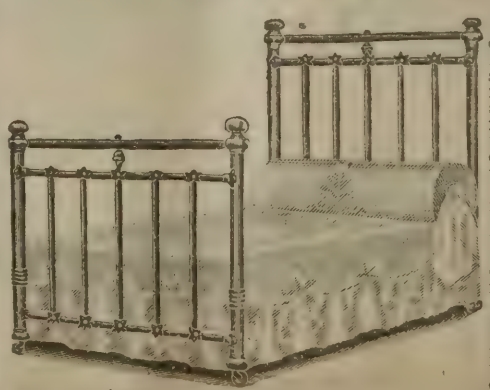


No. 1-A-304. This substantial Iron Bed has upright posts ⅞ inch thick. The filling is shaped in an attractive scroll design, is $\frac{5}{16}$ inch thick. Height of head end 51 inches; foot end 45½ inches. Can be furnished in 3 feet 6 inches and also 4 feet 6 inches in widths. We have these beds in all the latest, popular colors, neatly ornamented with heavy chills. Weight, 53 lbs.
Price, each.....**$2.00**

All widths except 3 foot.



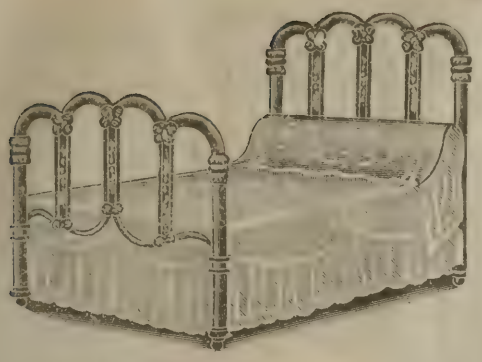
No. 1-A-212. New design Iron Bed. Has $1\frac{1}{16}$ inch continuous pillars and top rails. Filling rods are $\frac{5}{16}$ inch thick. Head end is 62 inches high, foot end 45 inches high. Bed is ornamented with gold chills at head, foot and all joints and also on the upright pillars. Weight, (full size) 75 lbs.
Price each single color **$3.35**
Price each, two color combination or Vernis-Martin..... **4.00**



No. 1-A-401. This elegant brass trimmed Iron Bed is finely constructed of the best materials. The top and bottom rods are made of brass § inch thick with 1¾ inch ornamental brass vases at the center. Corner posts are $1\frac{1}{16}$ inch thick. Head end is 60½ inch high and foot end 41 inch high. This bed has large chills where the side rails join to frame and also at all connecting points. All corners have large brass vases in addition to those in the center, Bed is equipped with good quality casters. We can supply all standard widths and popular colors Weight (full size). 75 lbs. Price, each.....**$3.65**

All iron and metal beds are shipped from our Chicago Warehouse Stock.

IRON BEDS

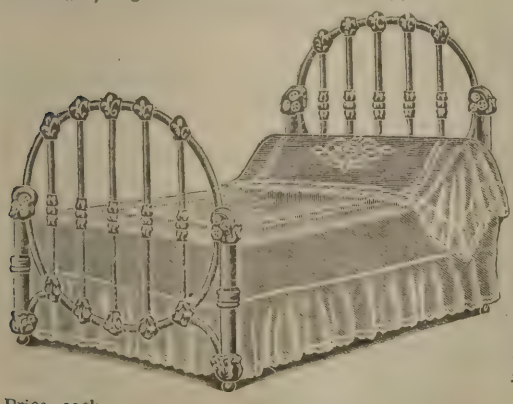


No. 1-A-214. This Iron Bed is 56 in. at the head end and 41 in. high at the foot end. Has six broad panels which are hand ornamented. They add greatly to the beauty of this design. All joining rods are ornamented with heavy chills. Has continuous top pillars and top tubes, measuring ⅞ in. in diameter. We can supply same in all the standard widths.

Weight, (full size) 80 lbs.
Price each, any color.....$3.50

No. 1-A-213. This simple and very attractive Metal Bed, is made with continuous pillars, measuring 1⅛ in. in diameter. The upright rods are ⅝ in. thick. The head end is 58 in. high and foot end 38 in. high. This is a carefully constructed bed and one that will give long and comfortable service. Weight, (full size) 83 lbs. Artistically ornamented pillars and joints. We can supply same in all standard widths.

Price each, single color.....$4.00



No. 1-A-441. This Iron Bed is 62 in. high at the head end and 44 in. high at the foot end. Can be furnished in any color and in three widths, viz: 3 ft. 6 in., 4 ft. and 4 ft. 6 in. The posts are 1½ in. thick, all filling being ⅝ in. thick. Note the massive, smoothly moulded chills which ornament this bed. All connecting points and center of all spindles have elaborate and heavy chills of a pleasing design. Weight, 80 lbs.

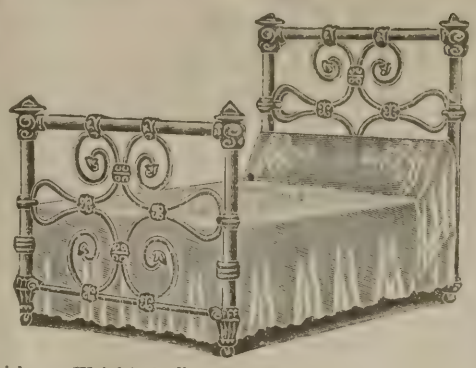
Price each.....$4.40

No. 1-A-216. Corner Posts and Top Rails are 1⅛ Inch Thick.

A very striking and extra strong and heavy brass trimmed Iron Bed. The top rails are of one continuous length, attractively ornamented with large chills. Head end is 63 in. high and foot end 47 in. high. We suggest that you carefully examine illustration which is a faithful reproduction of this bed. It will give you a better idea of its general attractiveness and pleasing outlines, than any description. Note the brass filling in head and foot end. Each of these pillars is ⅞ in. thick. Regular retail value of this bed $10.00. Weight, (full size) 110 lbs.

Price each, in any size except 3 ft. width, which we cannot supply....$5.35

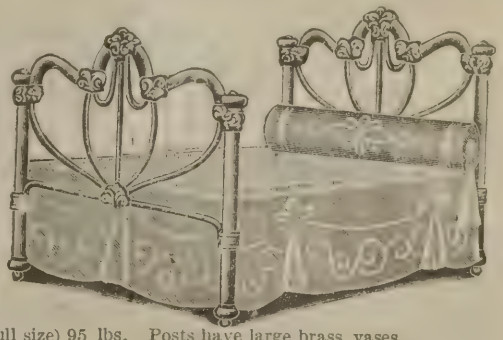
Unless otherwise specified we will use our own judgment in selecting colors for iron beds. We always ship 4 ft. 6 in. widths unless otherwise ordered. Be sure and notice our handsome lace sets for beds, also our bargains in pillows, mattresses and springs.



No. 1-A-440. This artistically designed strong Iron Bed is constructed of first class material throughout. The top tubes and pillars are extra heavy, measuring 1⅛ in. thick. Bottom rods are ⅞ in. thick. Note the ornamental scroll tubing, which is ⅝ in. thick. The height of head end is 61½ in. and the height of foot end 41½ in. This bed can be furnished in three widths, 3 ft. 6 in., 4 ft. and 4 ft. 6 in. We can supply it in all the popular finishes. Weight, 95 lbs.

Price, any color.....$3.90

No 1-A-215. This strongly constructed, brass trimmed, Iron Bed, is 56 in. at the head end and 46 in. at the foot end. It is made of first class material throughout, and is profusely ornamented with heavy chills. Corner posts are 1⅛ in. thick and the top tubes measure ⅞ in. in diameter. We can supply this bed in any of the popular colors. Weight, (full size) 95 lbs. Posts have large brass vases.



Price each, all widths.....$4.00

ANY STANDARD WIDTH

No. 1-A-363. This elegant Iron Bed is handsomely ornamented with heavy moulded cast chills. The head end is 61 in. high. Foot end is 47 in. high. Has 1⅛ in. continuous post and top rail. Filling rods are ⅞ in. in diameter. It is fitted with oil tempered angle bars and easily sliding casters. Weight, 94 lbs.

Price each, in single color.$4.40

We recommend the purchase of this Bed in two color combination or Vernis-Martin finish. See below.

You cannot make a mistake by selecting any of the iron or brass trimmed iron beds on this page. The prices given are for any one color, including blue, pink, dark green, pea green, or dead black. If gold chills are desired please state this when ordering. There is no extra charge for chills.

For 65c additional we will furnish you any of these beds with two colors, any combination preferred. For this price we also furnish the following special finishes: Vernis-Martin, gun metal, ivory and oxidized copper. Regular rails are always shipped unless reversed rails are specified. If you wish to use springs made for a wood bed order reverse rails.

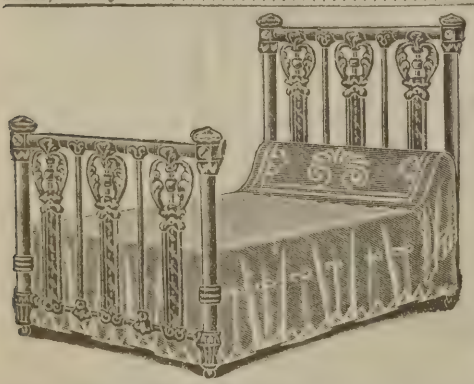
Iron Beds

All iron and brass beds are shipped from Chicago.

No. 1-A-301.
If you are looking for an attractive Iron Bed at a low price, you may look no farther. This continuous post iron bed is 65 inches high, head end, and 47 inches high at foot end. Continuous posts and top tubing is ¾ inches thick. Filling is ⅝ inches thick. Has brass center upright. Profusely adorned with 32 cast chills which are all gilded Can be supplied in all standard sizes. Any single or two color combination.

Weight, 90 lbs. Price, each, single color.....**$5.65**

No. 1-A-298.
This cathedral design brass trimmed bed is one of the handsomest and most attractive patterns in our entire stock. It has massive pillars and top tubes measuring each 1⅛ inch thick. The filling rods are ⅝ inches thick. The heavy brasshusk spindles add materially to the appearance of the design. The height of head end is 65 inches. Height of foot end is 47 inches. This bed can be furnished in any color or combination of colors. [See previous page.] We can supply all standard widths except the smallest or 3 foot size. Weight, full size, 120 lbs.
Price, in any color.....**$6.25**



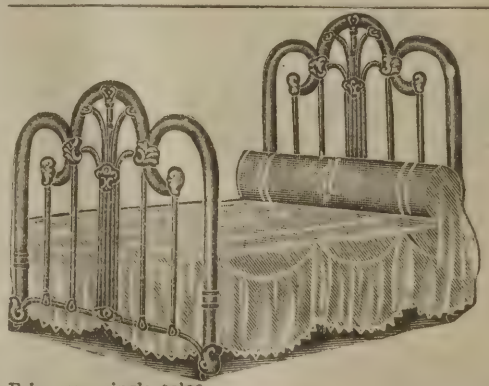
No. 1-A-299.
This brass trimmed iron bed is 60 inches head end and 41 inches foot end. The head, foot and uprights measure 1⅛ inches thick. The other rods are each ¾ inch thick. Corners are mounted with heavy square chills which harmonize perfectly with the larger chills used to join all connecting rods. Has 6 hand decorated broad panels, surmounted with ornamented heart shaped figure. We can supply this design in any single or two color combination. [See previous page. Comes in all standard widths except 3 foot size. Weight of full size is 143 lbs. Price, with single color.....**$6.90**

No. 1-A-403.
This substantial Iron Bed is of the massive continuous post construction, so popular in the high priced designs. The pillars and upper rails are 1¾ inches thick, while the 14 interior vertical rods are ⅝ inches thick. The head end is 65 inches high and the foot end is 43 inches high. The legs, pillars and all connecting points have heavy, massive hand wrought chills. We can furnish this bed in all standard widths except 3 foot size. Weight, 170 lbs.

Price, each, any single color.....**$8.00**
All beds can be supplied in two color combination. See previous page.

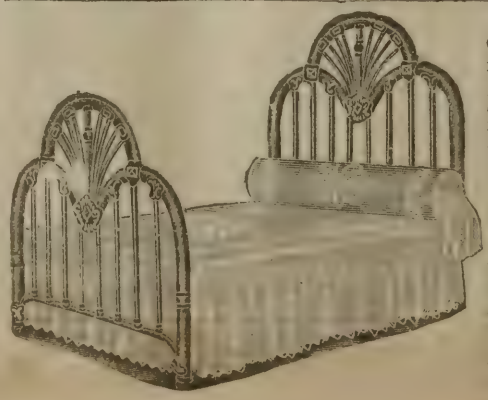
No. 1-A-119.
This substantial Bed is made in the highest class manner throughout. The iron frame and head rails being cast in one piece make this bed one of the types known as the continuous post variety. The filling in head and foot ends is ⅝ inch in diameter. The rich superiority of this design will appeal to all. The posts are 1⅛ inches in diameter. Head end is 62 inches high and foot end 44 inches high. Weight, 108 lbs. The joints are cast with heavy rail chills, giving this bed a very pleasing ornamental effect throughout. We can furnish this bed in any color or combination of two colors desired. Size 3 feet 6 inches and 4 feet 6 inches are the only sizes we can furnish. Shipped from Chicago.
Price, each, single color.....**$6.00** Price, two colors.....**$6.65**

No. 1-A-438.
This Iron Bed is richly ornamented with massive chills, most of which are near the top forming a rich group appealing strongly to the eye. Head end is 5 feet 2 inches high and foot end is 3 feet 6 inches high. We can furnish this bed in but one width, viz: 4 feet 6 inches. Same can be supplied in standard finishes. Pillars, head and foot, top rails consist of 1¼ inch tubing. The filling in head and foot end varies from ¾ to ⅞ inch thick. Notice the large chills on the foot. This is a bed that must be seen to be fully appreciated.
Weight, 140 lbs.
Price, any color.....**$6.85**



No. 1-A-1012.
This Iron Bed is 65 in. high at the head end and 47 in wide at the foot end. Has 1⅛ in. continuous tubing and is profusely ornamented with brass spindles, husks and rod ends. Filling varieties from ⅞ in. to ¾ in. thick. We can furnish this bed in 4 ft. and 4 ft. 6 in. widths only. Weight, 115 lbs. We recommend this bed to anyone wishing something first class, up-to-date and exceptional value.

Price, any single color.....**$7.35**
Price, two color combination or Vernis-Martin.....**8.00**



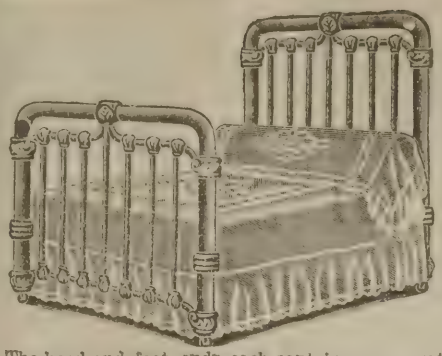
No. 1-A-118.
Colonial design, brass filled, Iron Bed. Size pillars ¾ in. in diameter. Head end 66 in. high foot end 48 in. high; posts are 2 in. in diameter. The filling in foot and head end varies from ⅞ in. to ½ in. in diameter. Foot and head ends be ornamented with a brass spindle and large bulk effect husk, size ¾ in. in diameter. A wonderfully handsome bed.

Price, any two color combination...**$10.90**
Vernis-Martin.. **10.65**

IRON BEDS

New "Chill-Less" Type

No. 1-A-399. This beautiful Iron Bed is of a most exclusive design. The style, although being extremely simple, embodies what may be termed rich simplicity. It has a distinctive character and striking effect which can only be appreciated when seen. The pillars are 1⅛ in. thick. The bottom rods are ⅝ in. thick, and vertical rods are ½ in. thick. The head end is 61 in. high, while the foot end is 41 in. high. We can furnish this bed in all standard widths and popular colors. We especially recommend that you purchase this bed in white. Weight, 115 lbs. Price, each, any single color (all widths).....**$7.00**



No. 1-A-434. This massive continuous Post Iron Bed is 61 in. high at the head end and 41 in. high at the foot end. The top tubing and pillars are 2 in. in diameter, while the balance of rods vary from ⅝ to ⅞ in. in diameter. This is one of the most striking and handsome iron beds of its kind on the market. Nowhere else can you secure such exceptional value as is represented herewith. It is richly adorned with massive chills on foot pillars and top rods with small chills at all connecting points. The head and foot ends each contain seven vertical spindles. A stronger or better iron bed has yet to be manufactured. Can be furnished only in 4 ft. 6 in., 4 ft. and 3 ft. 6 in. widths. We can supply this bed in all of the various popular colors and two color combinations. We especially recommend the purchase of this bed in the Vernis-Martin finish, as it has in this finish nearly all the beauty of a $35.00 brass bed. Weight, full size, 202 lbs. Price, each, (any finish).....**$9.65**

No. 1-A-435. This beautiful Iron Bed is as fine as anyone can possibly wish for. It is extremely massive, having 2 in. continuous post and extra heavy top rail, ½ in. filling. Has 14 upright rods. Head end is 57 in. high and foot end 40 in. high. Design is simple, yet attractive. The chills connecting the vertical rods with the foot rod are very small bringing into prominence the extra large and heavy, smoothly moulded chills at the top. Bed is equipped with heavy brass shoes and ball bearing casters. Can be furnished in any finish or combination of colors, in 3 ft. 6 in., 4 ft. and 4 ft. 6 in. widths. We especially recommend this bed in Vernis-Martin, ivory or any two-color combination. Weight, 165 lbs. Price, each.....**$10.65**

No. 1-A-437. This beautiful Continuous Post Iron Bed, is made so that all the seams and joints are absolutely plain and concealed. The head, foot, tops and pillars are of continuous tubing 1 5-16 in. thick. The head and foot end have heavy cross panels and seven vertical spindles, each ½ in. thick. The head end is 61 in. high and the foot end 40 in. high. A perfect specimen of pleasing design and finest constructions throughout. Especially recommended in white, although it can be furnished in any desired finish, and 3 ft., 3 ft. 6 in., 4 ft and 4 ft. 6 in. widths. Weight, 130 lbs. Price, each.....**$8.35**

Head 61 in. high
Foot 40 in. high
We recommend this bed in white

No. 1-A-436. We can furnish this Brass Trimmed Iron Bed in two different weights, viz: with 1¼ in. posts, ½ in. filling, or 2 in. posts, ⅝ in. filling. Note that the top rail of both head and foot is 1½ in. in diameter. Massive brass vases ornament the top of pillars. A bed of great elegance and rare beauty. We cannot recommend it too highly. Unless you purchase a brass bed, we advise the purchase of this bed. Price, each, 1¼ in. posts.....**$ 6.65**
Price, each, 2 in. posts.....**10.35**

Top Rails and Vases are of the best extra heavy brass

No. 1 - A - 1014 This Seamless Iron Bed is made of finest quality steel tubing and can be furnished in two sizes as follows: Size A, having 1¼ in. pillars and ½ in. filling, and size B being identically the same excepting that it has 2 in. pillars and ⅝ in. filling, also has three ¾ in. top rails. These beds are finely polished and especially recommended in enamel and white, having a rich appearance and remarkable tone. The head is 61 in. high and the foot 40 in. high. Both sizes can be furnished in all standard widths.
Size A, weight 150 lbs.....**$8.00** Size B, weight 175 lbs.....**$12.35**

No. 1-A-1000.

The wood beds at the right and left are of new and extremely beautiful design and workmanship. They are all hand polished throughout, are on simple square lines which will harmonize with any furniture. They are rapidly attaining the popularity of the finest brass beds. Type **No. 1-A-1000** at the left can be furnished in two sizes, A and B; Type A with 1¼ in. upright posts and 1⅛ in. top rails; type "B" with massive 2¼ in. upright posts and with 1¾ in. top and bottom rails.

No. 1-A-1001 at the right is of the same size as type "B," but is of a little more ornate pattern, the tops of posts being fitted with solid brass caps. All beds measure 60 in. high at the head and 42 in. high at the foot. Can be furnished in all standard widths. Side rails have malleable iron ends. Weight, about 100 lbs.

No. 1-A-1001.

	No. 1-A-1000. Type "A"	Type "B"	No. 1-A-1001.
Birch, mahogany, oak any finish	$14.40	$15.50	$20.00
Enamel, any color	15.50	16.50	21.00

	No. 1-A-1000. Type "A"	Type "B"	No. 1-A-1001.
Satin walnut, mahogany, Vernis-Martin	$16.00	$17.00	$22.00
Circassian walnut, birdseye maple	20.00	21.00	25.00

High Grade Brass Beds

The various brass beds illustrated and described on this page are made of the highest quality material. The workmanship and construction of the cheapest bed on this page is just as fine as on the highest priced, the difference in the cost being the amount of labor involved in making and the quantity of material. Your attention is called to the fact that all the brass beds we offer are fitted inside with heavy steel cores, making them as strong as any iron bed. They are polished in the regular gold color, protected by the very best English lacquer. These beds are guaranteed for 10 years, and positively will not tarnish if given proper care. They are fitted with automobile ball bearing brass casters which cannot slip out. Satin finish in a dull Roman gold effect, lacquered by the same process. When ordering be sure and specify whether the polished or dull brass finish is desired. Every brass bed we offer for sale is guaranteed both as to construction and finish. They are carefully packed in crates to prevent scratching or breakage, and are promptly shipped. All are shipped from our Chicago stock.

When ordering brass beds be sure and specify width and finish desired. If not mentioned in your order, we ship 4 ft. 6 in. width and polished finish.

$11.75 Buys this Design

No. 1-A-331. This massive brass bed has 2 in. pillars and ⅝ in. top rails and spindles. The head end is 58 in. high and the foot end 38½ in. high. This design though simple is of pleasing appearance and will give perfect satisfaction as far as service is considered. Can be furnished in either polished golden, or brush brass finish. Guaranteed not to tarnish within 10 years. It is not always safe to ship brass beds by freight uncrated. In order to assure you of your bed being received in perfect condition, we will not send it ready wrapped as some firms do, but will crate it substantially at an actual cost of $1.00 to us, for which we will make no charge. Weight, 193 lbs. Can be furnished in all standard widths.

Price, each.....**$11.75**

$18.65 Buys this Design

No. 1-A-148. Curved foot brass bed. Pillars are 2 in. in diameter, top tubing is ¾ in. thick. Spindles and other ornamental tubing vary from ¾ to ⅝ in. in diameter. Head end 64 in. high. Foot end 43 in. high. Posts are ornamented with 3 in. brass knobs and brass husks at all joints. Foot end is nicely curved and contains 7 spindles. Note cross panels in head and foot ends. All sizes. Satin or polished finishes. Weight, 205 lbs.

Price, each.....**$17.35**

$18.25 Buys this Design

No. 1-A-185. This brass bed is 61 in. high at the head end and 40 in. high at the foot end. Bottom rails are ⅝ in. in diameter, the balance of filling being ½ in. in diameter. It is of the popular continuous post variety, the head, foot and pillars being constructed of 2 in. continuous tubing. It is attractively ornamented with large brass husks. All connections and joints are profusely ornamented with ornate husks. Note the attractive cross paneling above head and foot end as shown in illustration. Weight of full size, 240 lbs. Length, 76 in.

Price, either satin or polished finish.....**$18.25**

$31.35 Buys this Design

No. 1-A-186. Brass Bed, 2 in. posts and top rails, 1 in. foot rails, ⅞ in. filling. Heavy brass husks of pleasing design, at all connecting parts and joints. Nine vertical pillars in head and foot ends. Double panel across center. It is rich and ornate in design, and one of the continuous post variety that has proven so popular among exclusive city patrons. Height of head end 55½ in., height of foot end 34½ in. Can be furnished in all standard widths and in either satin or polished finish. Weight, in full size 240 lbs. Compare this bed with those quoted at from $45.00 to $50.00 by your local dealer and you will appreciate this value.

Price, each.....**$31.35**

$13.25 Buys this Design

No. 1-A-147. This attractive panel head and foot brass bed, has massive upright posts of 2 in. in diameter, surmounted with attractive caps. Head and foot rails are ¾ in. in diameter. Filling ⅝ in. in diameter. The head end is 58 in. high and the foot end is 38 in. We can supply all sizes and either of the finishes described in the introductory paragraph at top of page. Weight, 215 lbs.

Price, 5 spindles **$13.25**

Price, 7 spindles **$14.65**

$21.25 Buys this Design

No. 1-A-146. A distinctly new and pleasing Colonial design brass bed. Height of head end 67 in., height of foot end 47 in., upright posts are 2 in. in diameter. The tubing in head and foot ends is ¾ in. in diameter. Other ornamental tubing ⅝ in. in diameter. The pillars are mounted with 3½ in. cathedral vases, which adds to the beauty of this bedstead. Foot is slightly curved, ornamented with large brass husks. Note the 7 upright spindles with cross panel. All joints have brass husks of good size. We can furnish this bed in the following widths: 3 ft., 3 ft. 6 in., 4 ft., 4 ft. 6 in. Weight, full size 195 lbs.

Price, each.....**$21.25**

$22.85 Buys this Design

No. 1-A-184. The design shown herewith has proven a very popular seller in our city salesrooms. It is an extremely handsome continuous post brass bed, having pillars and top rails in one length of 2 in. tubing. The high grade quality material and expert workmanship, cannot be fully appreciated from the picture. It is an article that must be seen to be fully appreciated. The head end is 61 in. high and the foot end 40 in. high. Has 7 spindles in head and foot end, each of which measure ⅞ in. in diameter. The top and bottom rails are connected to spindles with egg shaped ornaments. Weight full size, 235 lbs. Beds are 76 in. long. Can be furnished in either satin or polished finish.

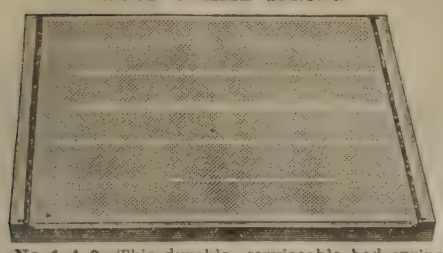
Price, each.....**$22.85**

$34.65 Buys this Design

No. 1-A-183. This brass bed is made along rich, withal simple lines. Has continuous 2 in. posts and tops, symmetrically proportioned throughout. Head end 61 in. high, foot end 40 in. high. Pillars are mounted with massive brass ball husks, as illustrated. This bed contains 13 upright spindles, each fastened at head and foot end, profusely ornamented with large husks. The spindles measure ⅞ of an inch thick. We can furnish this bed in all sizes and in either the polished or dull brass finishes. Weight in full size, 250 lbs. Price, each.....**$34.65**

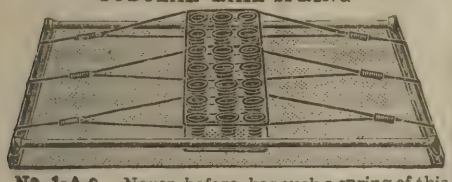
SPRINGS AND CRIBS

WOOD FRAME SPRING

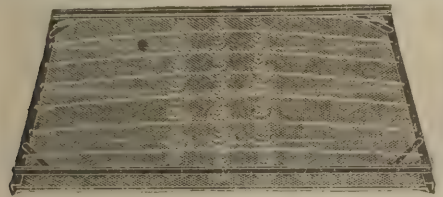


No. 1-A-8. This durable, serviceable bed spring is made with an extra quality woven wire fabric, and is heavily reinforced by extra weave cords throughout. Seasoned hardwood maple frame substantially joined. All sizes. Weight, 40 lbs. Price, each. **$1.35**

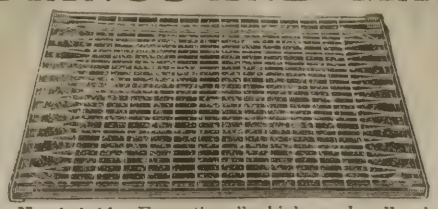
TUBULAR RAIL SPRING



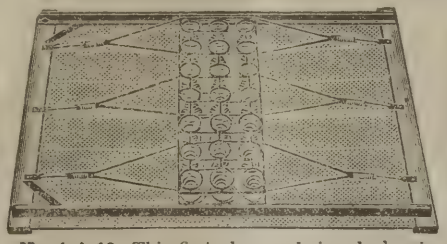
No. 1-A-9. Never before has such a spring of this superior character sold for less than $4.50. Entire frame is made of best quality iron, having side rails of tubular construction, measuring in diameter 1 5/16 inches. The head and foot cross angle bars are securely clamped and bolted in a very substantial manner. The extra fine quality durable weave fabric is well elevated above frame, thus giving full sleeping facilities to entire surface of bed, while an oil tempered spiral spring construction prevents sagging and maintains an even tension with no possibility of fabric stretching beyond normal requirements. An excellent feature is the steel corner fastenings which make springs absolutely rigid and practically indestructible. This is a particularly desirable spring for all iron and brass beds. All sizes. Price..... **$2.25**



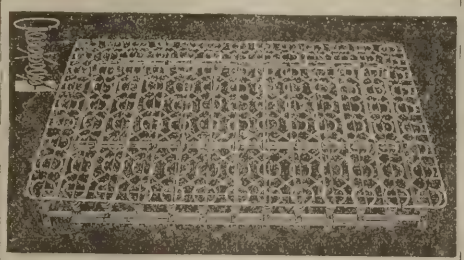
No. 1-A-10. Extra high grade angle iron bed spring made with closely woven double fabric, supported by coil springs fastened to body with copper wire. Has full set of 18 coil springs in center, arranged and supported so as to give the greatest comfort. Supported at ends with 7 fine high tension helical springs. All sizes. Price..... **$2.35**



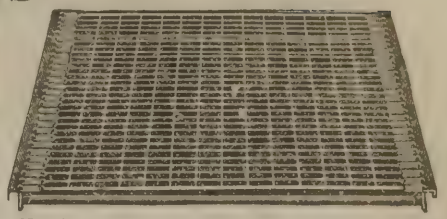
No. 1-A-11. Exceptionally high grade all wire spring, angle steel frame, enameled black, rigid construction throughout. Body of spring is made with a patent fabric which cannot become unlocked or unhooked, and which positively will not loosen. The steel wire used in its manufacture is heavily tempered and will not rust or tarnish. Fastened to frame at ends and sides with 16 helical springs. All sizes. Weight, 55 lbs. Price, each..... **$2.40**



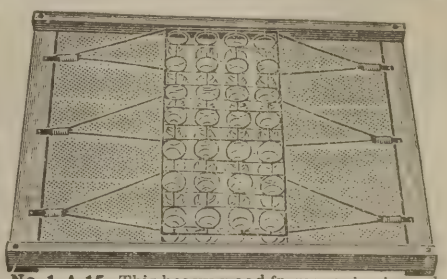
No. 1-A-12. This first class angle iron bed spring is of the same general construction as described under number 1-A-109. It has a heavy spring support, reinforced with heavy copper wire. We recommend it as the best value ever offered for the money. All sizes. Weight, 50 lbs.
Price, each..... **$2.15**



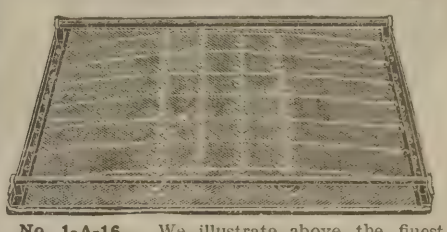
No. 1-A-13. The above spring makes an ideal uncovered box spring of unusual strength and great comfort. Has extra high top. Spring is composed of 117 highly tempered spiral springs bound together with a patent interlocking top which can not get out of shape. Finished in black Japan enamel to prevent rust. Heavily reinforced. An ideal spring for hard usage or heavy persons. Regular retail price of this spring is $9.00.
Price, each..... **$3.65**



No. 1-A-14. Tubular pipe bed spring, patented heavy oil tempered steel wire fabric, supported at ends with 58 helical springs, with a support of steel slats, assuring absolutely rigid, yet yielding and comfortable springs. Pipe at sides is 1¼ in. size. Corner rise is 6 in., giving it the appearance and comfort of the finest box spring. This is the best spring we have ever offered at the price. Weight, 62 lbs. Price, each..... **$3.95**



No. 1-A-15. This heavy wood frame spring is made with bolted steel corner plates, making it practically indestructible. Center is reinforced with oil tempered spiral springs. Frame is supported at the ends by helical springs. A first-class spring for general use. Weight, 45 lbs. Price, each.... **$1.80**



No. 1-A-16. We illustrate above the finest bed spring manufactured. Frame is made of angle iron with tubular pipe sides. It rises four inches at corners, suggesting an expensive box spring. Double pencil weave fabric of the finest quality, with heavy rope edge reinforced with copper wire. 24 oil tempered coil springs of double depth to support the center. These are interlocked at the top and bottom into the spring itself and cannot shift. Guaranteed non-sagging; finest gilt finish. Weight, 55 lbs. Price, each..... **$3.65**

HIGH GRADE CRIBS AT BARGAIN PRICES

No. 1-A-17. This crib is made of selected, seasoned hardwood, finished in a rich shade of golden oak. It is of a unique design and one that will appeal to those who desire a substantial and handsome appearing crib. It is 3 ft. 4 in. high, 3 ft. 2 in. long and 20 in. in width. The base consists of three broad slats. The upright spindles, top rails and rockers are attractively turned and strongly fitted together. Weight, 30 lbs. Shipped from Southern Indiana.
Price, each..... **$1.65**

No. 1-A-18. This continuous post all metal crib, is a more attractive and better quality article than similar cribs. All pillars are ⅞ ins. in diameter. The side and fillings vary from ⅝ in. to ¼ in. in diameter. The head end is 42½ ins. high, the foot end is 37½ ins. high. It is fitted with guaranteed springs which are extra heavy and will not sag, spread or cut apart. Can be furnished in all of the latest popular colors. Lot on hand consists of two sizes as designated below. Shipped from Chicago. Weight, 99 lbs. Size, 2 ft. 6 in. x 4 ft. 6 in.
Price, each..... **$4.40**
Weight, 110 lbs. Size, 3 ft. x 5 ft. Price, each **4.75**

No. 1-A-19. All iron sliding side crib, of extra high grade manufacture. ⅞ in. continuous pillars. All other rods are 5/16 in. in diameter. Sides are 21 ins. above bed. Head and foot ends are 46 in. high. Has a patent fabric spring which cannot stretch, sag, rust, or get out of order. It is impossible to get a more substantial or durable crib in this design. For all around attractiveness and real service it cannot be surpassed. We can furnish same to you in Vernis-Martin finish, which closely resembles brass, or in any of the popular colors or combination. Weight, 122 lbs. Size, 2 ft. 6 in. x 4 ft. 6 in.
Price, each..... **$6.00**
Weight, 122 lbs. Size, 3 ft. x 5 ft. Price each, **6.35**

MATTRESSES

These Mattresses were made in the largest and most sanitary factory in the world. Ventilation is perfect and there is an abundance of natural sun light, all of which are necessary to produce healthful, and sanitary bedding. Under these conditions, the workmen are able to produce a much more satisfactory article than can be produced in so-called sweat shops.

In this factory, no unclean, unsanitary or second-hand material is used, only first class new goods are permitted, an essential in the production of first class sanitary bedding.

Equipment: Steam Power Sewing Machines, Improved Filling Machines, with which all grades of mattresses are filled, not stuffed, in consequence of which a uniformity unexcelled is obtained; when mattresses are made without lumps and bumps they are not apt to become so through use.

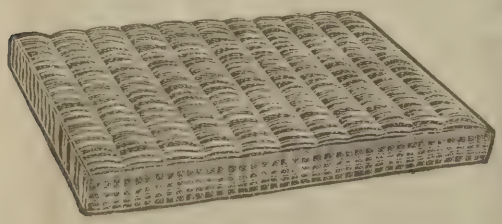
Tufting Machines of the latest designs, producing the square biscuit shaped tufts, or the diamond shaped tufts, as the mattress requires, placed accurately, evenly, and at the proper tension, cannot be done so well by hand.

Pickers, Blowers, Cleaners and Dust Extractors for preparing all of the many different grades of stock for use.

A system of many machines for the care and preparation of the Elastic Felt Mattress is a department by itself.

The most thorough, complete and up-to-date factory in existence.

It is the product of this faultless plant we are offering you at prices which cannot fail to interest you.



Excelsior Mattress.

Made of Excelsior, suitable quality of ticking tufted top and bottom, with leather tufts. Weight, full size, 40 lbs. A good mattress of its kind. Furnished in all sizes.....**$1.37**

COTTON TOP MATTRESS.

We quote this mattress to demonstrate that our prices are right as compared with other dealers, but we do not guarantee it to be a mattress altogether satisfactory.

We recommend all grades above this one as being such as will give general satisfaction. Weight, 40 lbs. for full size. We furnish all sizes at.....**$1.68**

EXCELSIOR COTTON TOP MATTRESS.

Made of standard quality of excelsior with white cotton top, made from clean new cotton. Good quality of serviceable ticking closely stitched on edges all around, tufted top and bottom. A very satisfactory mattress.

4-6	4-0	3-6	3-0&2-6
45 lbs	40 lbs.	35 lbs.	30 lbs.
$2.18	**$2.13**	**2.05**	**$1.98**
Folding Bed	Crib 3-0X5-0		Crib 2-6X4-6
30 lbs.	20 lbs.		15 lbs.
$2.05	**$1.65**		**$1.45**

COTTON TOP AND BOTTOM EXCELSIOR MATTRESS

This mattress is made with thick sheets of carded cotton, new and clean, on top and bottom, with best quality of basswood excelsior in the center, has a good quality of ticking covering with welted edges, closely stitched on edges all around, tufted down on top and bottom. **A mattress that can be used on either side by reversing.**

4-6	4-0	3-6	3-0&2-6
45 lbs.	40 lbs.	35 lbs.	30 lbs.
$2.69	**$2.62**	**$2.55**	**$2.36**
Folding Bed	Crib 3-0X5-0		Crib 2-6X4-6
30 lbs.	20 lbs.		15 lbs.
$2.50	**$2.25**		**$1.85**

CORN HUSK COTTON TOP MATTRESSES.

Extra selected bright Tennessee husk, specially hackeled and prepared, free from cob and coarse, hard husk, heavy layers of carded cotton on top. Diamond tufted top and bottom, sides and ends closely stitched. Splendid quality heavy twill ticking.

4-6	4-0	3-6	3-0
45 lbs.	40 lbs.	35 lbs.	30 lbs.
	Price—Cotton on one side		
$2.99	**$2.92**	**$2.85**	**$2.80**
	With Cotton Top and Bottom		
$3.32	**$3.25**	**$3.20**	**$3.10**
Folding Bed	Crib 3-0X5-0		Crib 2-6X4-6
30 lbs.	20 lbs.		15 lbs.
	Cotton on one side.		
$2.95	**$2.50**		**$2.20**
	Cotton top and bottom.		
3.20	**2.60**		**2.25**

ROYAL COMBINATION MATTRESS.

Is made with finest quality white basswood excelsior, overlaid on top, bottom and edges, with heavy thickness of clean, new cotton manufactured into sheets especially for this purpose, diamond tufted on top and bottom, covering heavy twill ticking, two rows stitches set in close on sides and ends.

4-6	4-0	3-6	3-0&2-6
45 lbs.	40 lbs.	35 lbs.	30 lbs.
Price **$2.93**	**$2.86**	**$2.80**	**$2.70**
Folding Bed	Crib 3-0x5-0		Crib 2-6x4-6
30 lbs.	20 lbs.		15 lbs.
Price **$2.85**	**$2.45**		**$2.15**

RELIANCE COMBINATION MATTRESS.

Our Five Layer Favorite.

Made with best quality Wisconsin white basswood excelsior in center, overlaid on both sides with white, fine spun wood wool excelsior, which in turn is surrounded on top, bottom and edges with extra thick sheets of elastic cotton felt. The covering is of extra strong quality of twill ticking of desirable patterns; all seams welted. The most durable seams known. Special form diamond tufting, top and bottom: sides and ends closely stitched and finished with leather tufts.

4-6	4-0	3-6	3-0&2-6	Folding Bed	Crib 3-0x5-0	Crib 2-6x4-6
45 lbs.	40 lbs.	35 lbs.	30 lbs.	30 lbs.	20 lbs.	15 lbs.
$3.43	**$3.35**	**$3.30**	**$3.20**	**$3.32**	**$2.75**	**$2.45**

HOUSEHOLD DELIGHT COMBINATION MATTRESS.

The Mattress with Seven Layers.

A mattress that wears well, is comfortable and sanitary. It is made with the center layer of best quality of Wisconsin white basswood excelsior, which is surrounded with fine spun wood wool excelsior. On top and bottom of these three layers is a heavy layer of sanitary sea moss, and finally all of these five layers is completely surrounded with a good heavy thickness of clean, new cotton, machine felted into a uniform sheet. The whole is then enveloped in a ticking of serviceable quality, finished with welted seams. The mattress is then diamond tufted top and bottom and stitched all around on ends and side with two rows leather tufts.

4-6	4-0	3-6	3-0&2-6	Folding Bed	Crib 3-0x5-0	Crib 2-6x4-6
45 lbs.	40 lbs.	35 lbs.	30 lbs.	30 lbs.	20 lbs.	15 lbs.
Price **$3.92**	**$3.86**	**$3.80**	**$3.50**	**$3.70**	**$3.00**	**$2.75**

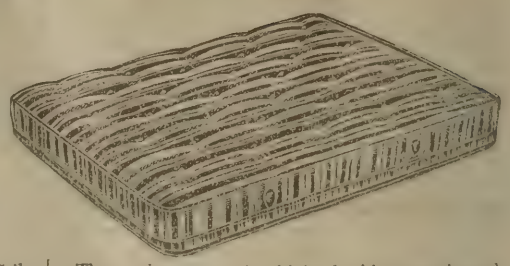
UPHOLSTERED BOX SPRING MATTRESSES

The manufacturers of these Spring Mattresses are acknowledged to be at the head in the production of mattresses of this kind. Their product has been in constant use for years and are giving unconditional satisfaction in durability, as well as comfort.

They are constructed upon designs which conserve the strength of the material used, making them very durable and very nearly indestructible and, at the same time, retaining all of the quality making for comfort, and gentility.

The frame consists of the very finest quality of clear hardwood, seasoned and mill worked. Joints properly fitted together, glued and nailed, substantially braced, nicely furnished. The illustration shows a frame made with a rabbet edge to use on a metal bed, the edges of the frame being extended to rest upon the side and end rails of the bed. No slats to be used.

Springs for wooden beds are made with the edges straight, and are to set on slats down inside of the rails of the bed.



The springs are extra high, double cone-shaped, made from standard high tempered carbon steel wire, adapted especially for bed springs, securely set on slats extended crosswise of the frame, and fastened with steel coppered staples, each spring being tied and knotted in its own position on top, eight times, with best quality Italian hemp spring twine. Twin springs are used on the edges all around which double the life of the spring. The outer edge of the outer row of springs are aligned to a heavy rod of rattan extending all around, giving a firm spring edge that cannot get out of shape. Metal beds are uniform in width and is the measurement from outside to outside of the side rails either 4 ft. 6 in., 4 ft., 3 ft. 6 in., 3 ft., the regular length is 6 ft. 3 in.

To obtain the correct measures of springs for wood beds, measure the width and length inside of the rails and head and foot boards and deduct 2 in. each way. EXAMPLE: If the inside measure is found to be 4 ft. 6 in. in width and 6 ft. 3 in. in length, the size of the spring should be 4 ft. 4 in. wide, and 6 ft. 1 in. long.

Be careful always to state whether spring is to fit a wood or metal bed.

Weight of box spring ready to ship about 100 lbs.

UPHOLSTERED BOX SPRING WITH COCOA FIBER AND COTTON TOP.

Cocoa Fiber is used instead of flax tow, as it will not work up fine, but retains its elasticity, and continues to furnish a soft, even surface for the mattress to lie upon. Over the top of the fiber is placed a sheet of clean, new carded cotton, adding to the softness of the top of the spring, covered with a good grade of sateen ticking.

Price.....**$9.95**

ELASTIC FELT TOP UPHOLSTERED BOX SPRINGS.

Upon the top of the burlap covering is used enough cocoa fiber to make a good foundation for the felt to lie upon, over which is laid by hand a sheet of pure cotton elastic felt, made of pure cotton, as stated, under the head of cotton elastic felt mattress. This sheet is made extra thick so that only one block just the size of the top of the spring is used, thereby producing an unusually even and uniform thickness which will not lump and bunch up. A fine grade of heavy sateen ticking is used.

Price.....**$11.45**

HAIR TOP UPHOLSTERED BOX SPRING.

A fine quality of cocoa fiber is used on top of the burlap for a foundation, upon which is placed, by hand, a good quality of curled hair, making a very soft resilient top. The heaviest grade of fancy striped sateen ticking is used.

Price.....**$12.85**

EXTRA QUALITY LONG CURLED HAIR TOP UPHOLSTERED BOX SPRING.

A foundation of elastic cotton felt is used upon top of the burlap, over which is laid by hand the curled hair, making a most luxurious top. Covering the finest, close woven, heavy sateen fancy stripe ticking.

Price.....**$13.95**

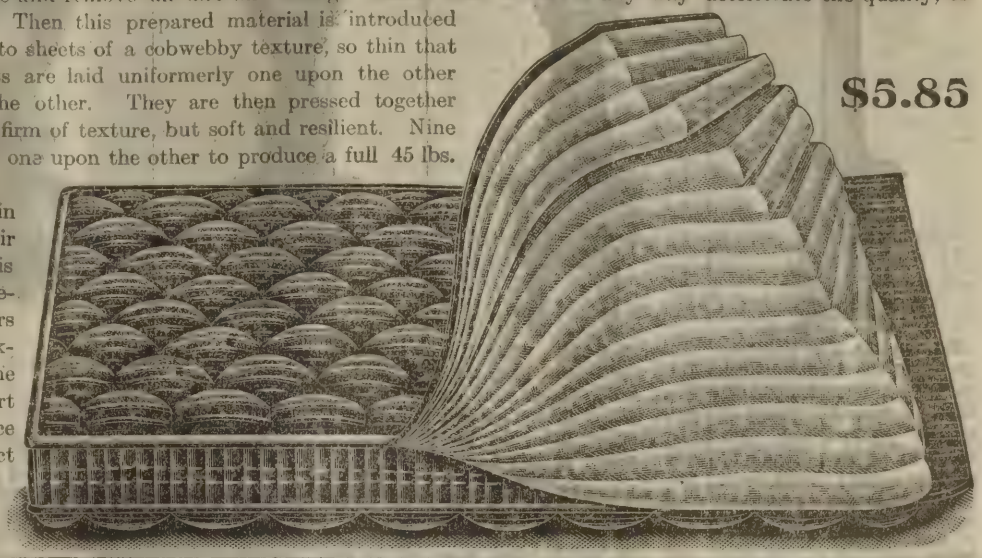
Elastic Cotton Felt Mattresses

Every mattress bears the guarantee of the manufacturer, and is as near perfect in construction as modern up-to-date machinery and ingenuity can produce. There is nothing used in these mattresses but brand new cotton prepared into sheets or layers for this especial purpose by special built machinery.

The cotton as it is received from the cotton fields in large bales is first cured and thoroughly seasoned and tempered, then run through a series of machinery to cleanse and remove all dirt and foreign matter that would in any way deteriorate the quality, or tend to reduce resiliance of the fiber. Then this prepared material is introduced into a machine which spins the fiber into sheets of a cobwebby texture, so thin that they are transparent The thin sheets are laid uniformerly one upon the other until twenty of them are one upon the other. They are then pressed together which makes interwoven sheets of felt, firm of texture, but soft and resilient. Nine of these sheets are used, laid by hand, one upon the other to produce a full 45 lbs. weight mattress.

The nine layers are enveloped in the ticking in such a manner that their uniformity in thickness and evenness is not disturbed. Machinery of special design is used for this, so that the layers are the same after being inside the ticking cover as when originally laid, one upon the other. This process from start to finish is designed and does produce the most elastic, resilient and perfect made Felt Mattress on the market.

These cannot be recommended too highly.



$5.85

PARK ELASTIC COTTON FELT MATTRESS.

The Felt, of which this Mattress is made is produced from Cotton which has not been treated by any process of bleaching, and of Cotton having a staple shorter than the higher grades. It is cleansed just as thoroughly, however, and is usually sold by dealers at $7.00 to $9.00. Covering of a good grade of closely woven Ticking, chosen particularly for its wearing quality.

Tufted top and bottom into square biscuits with large cotton Tufts, and finely stitched.

4 ft. 6 in., 45 lbs.	$5.85
4ft. 40 lbs.	5.75
3 ft. 6 in., 35 lbs.	5.45
3 ft. & 2 ft. 6 in., 30 lbs.	5.10
Folding Bed, 30 lbs	4.80
Crib, 3 ft. & 5 ft., 16 lbs.	3.65
Crib, 2 ft. 6 in. by 4 ft. 6 in. 12 lbs.	2.75

CHICAGO ELASTIC COTTON FELT MATTRESSES.

This Mattress is a far better article than is usually offered for more money, on account of the Cotton from which the Felt is made having been selected from the locality producing a Fiber especially adapted for this purpose. We are offering our customers something that our experience teaches is the best value to be found. The Felt is white, long, hard staple, very elastic, and is a very satisfactory Mattress under the most exacting conditions.

The Ticking is of an extra heavy Sateen finish, especially suited to a Mattress of this grade.

4 ft. 6 in., 45 lbs.	$9.25
4 ft., 40 lbs.	9.15
3 ft. 6 in., 35 lbs.	8.45
3 ft. x 2 ft. 6 in., 30 lbs.	7.95
Folding Bed, 30 lbs.	7.35
Crib, 3 ft. x 5 ft., 16 lbs.	5.45
Crib, 2 ft.x4 ft. 6 in., 12 lbs.	4.25

COLUMBIA ELASTIC FELT MATTRESS. $10.95.

And a No. 1 MATTRESS.

It gives us pleasure to offer a HIGH GRADE MATTRESS like this, as we know we are offering a Grade at the top in Grades of Felt MATTRESSES; something that will be a pleasure and comfort to our customers for years.

A Pure, White, long staple, natural Cotton Felted into downy, fluffy, snowflake sheets of uniform thickness, laid one upon the other, fully 45 pounds complete, unpacked.

Special designs of extra heavy Sateen Ticking of the best quality, handsome patterns, finished in the most desirable and pleasing manner. Usually sold for $16.00, very often still higher.

4 ft. 6 in., 45 lbs. Our price	$10.95
4 ft., 40 lbs. Our price	10.65
3 ft. 6 in., 35 lbs. Our price	9.85
3 ft. & 2 ft. 6 in., 30 lbs. Price.	8.95
3 ft. x 5 ft., 16 lbs. Our price	6.85
2 ft. 6 in.x4 ft.6 in., 12 lbs. Price	5.95

HUMMER ELASTIC COTTON FELT MATTRESS.

The Cotton used in the production of the Felt for this Mattress is of good long staple, and color, and strong Fiber. Entire satisfaction guaranteed.

An extra good grade of Sateen finish Ticking is used. Welted seams-biscuit tufted top and bottom with large Cotton Tufts. A Mattress we recommend unhesitatingly, usually sold for $10.00.

4 ft. 6 in., 45 lbs.	$7.85
4 ft., 40 lbs.	7.30
3 ft. 6 in., 35 lbs.	6.90
3 ft. & 2 ft. 6 in., 30 lbs.	6.40
Folding Bed, 30 lbs.	5.95
Crib, 3 ft. x 5 ft., 16 lbs.	4.45
Crib, 2ft.6in.x4ft.6in., 12 lbs.	3.45

HAIR MATTRESS.

Short BLACK or GRAY CURLED HAIR, COVERING. Best Quality AMOSKEAG TICKING, tufted top and bottom with Cotton Tufts. Welted seams, finely stitched edges.

4 ft. 6 in., 40 lbs.	$7.60
4 ft. 0 in., 36 lbs	7.25
3 ft. 6 in., 32 lbs.	7.15
3 ft. & 2 ft. 6 in., 30 lbs.	6.65
Folding Bed, 30 lbs.	6.55
Crib, 3 ft. by 5 ft., 18 lbs.	4.15
Crib, 2 ft. 6 in. by 4 ft. 6 in., 14 lbs	3.55

Any Felt or Hair Mattress will be furnished in two pieces for 50c extra.

HAIR MATTRESS.

A selected long Black Hair, curled and cured in very best manner, very resilient and springy. BEST HIGH GRADE, HEAVY WEIGHT, FANCY ART TICKING. Finished in the best possible manner.

A MATTRESS OF HIGH GRADE.

4 ft. 6 in., 40 lbs.	$16.45
4 ft. 0 in., 36 lbs.	14.65
3 ft. 6 in., 32 lbs.	13.00
3 ft. 0 in. & 2 ft. 6 in., 30 lbs.	12.25
Folding Bed, 30 lbs.	12.15
Crib, 3 ft. by 5 ft., 18 lbs.	7.15
Crib, 2 ft. 6 in. by 4 ft. 6 in., 14 lbs.	5.75

Pillows and Feathers in Bulk at Low Prices

No. 71 Cocks. MIXED ALL FEATHERS.

Steam cured in approved manner. A very serviceable PILLOW, covered with **ACA Standard Ticking.**

18 in.x25 in., 2½ lbs. Price ech.	$0.45
20 in.x26 in., 3 lbs. Price ech.	.52
21 in.x27 in., 3½ lbs. Price ech.	.59

MIXED FEATHERS.

Free from Dust and all Foreign Matter. Steam dressed and cured-ODORLESS. An Excellent Pillow mixture. **Covering, fine quality Satin finish Ticking.**

20 in.x26 in., 3 lbs. Price ech.	$0.85
21 in.x27 in., 3½ lbs. Price ech.	.95
22 in.x28 in., 4 lbs. Price ech.	1.10

A MIXTURE OF DUCK AND GOOSE, FINELY SELECTED FEATHERS.

Steam dressed and curled by approved facilities in the Hot Blast process. Absolutely pure and odorless, and sanitary. Extra value. **Extra Heavy Satin Ticking.**

20 in.x26 in., 2 lbs. Price ech.	$1.18
21 in.x27 in., 2½ lbs. Price ech.	1.47
22 in.x29 in., 3 lbs. Price ech.	1.77
24 in.x30 in., 3½ lbs. Price ech.	2.06
25 in.x30 in., 4 lbs. Price ech.	2.36

STANDARD GRADE OF GOOSE FEATHERS, EXTRA SELECTED.

Steam dressed and cured by best process known, producing a plump, soft and highly satisfactory PILLOW. Standard quality of Plain, or Fancy Stripe Satin finish TICKING.

20 in.x27 in., 2 lbs. Price ech.	$1.38
22 in.x27 in., 2½ lbs. Price ech.	1.72
23 in.x29 in., 3 lbs. Price ech.	2.07
24 in.x29 in., 3½ lbs. Price ech.	2.41
26 in.x31 in., 4 lbs. Price ech.	2.76

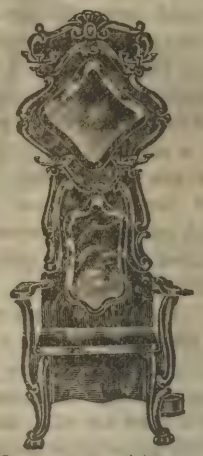
Hall Trees and Costumers

No. 1-A-449. This Hall Tree is one of the latest designs on the market. It is 74 in. high, 19 in wide, made of quarter sawed oak, finished in a rich shade of golden. It has a French bevel plate mirror at top, glass of which measures 8x8 in. Base is designed for umbrellas, canes, and has a drip pan at the bottom. Weight, 50 lbs.
Price, each.....**$3.95**

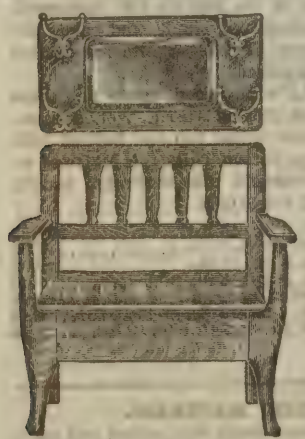
No. 1-A-376. This Hat Rack is 6 ft. 4 in. high, 2 ft. 3 in. wide, fitted with an extra quality French beveled plate mirror, 12 in. high and 8 in. wide. It is made of quarter sawed oak, finished a rich golden. Note shaped back and tapered legs. Has a brass umbrella rack and drip pan at right hand side. Is fitted with four double brass hat and coat hangers. Weight, 80 lbs.
Price, each.....**$4.65**

No 1-A-377. One of the finest designs in a Hall Tree and Umbrella Stand. It is made of solid quarter sawed oak, finished in a rich shade of golden. Has artistically carved top with heavy moulding. Four solid brass, double hat and coat hooks. Has umbrella holder and drip pan at the side. Height, 6 ft. 5 in., width, 28 in. Mirror is 10x12 in. Weight, 90 lbs.
Price, each.....**$5.70**

No. 1-A-149. This Hall Tree is one of the newest designs of its kind. Made of quarter sawed oak, finished golden. Height, 79 in., width, 31 in. Has French beveled plate mirror, oval design, size, 20 in. high and 12 in. wide. Has four double coat and hat hooks, umbrella rack and drip pan, hinged seat and receptacles for rubbers, slippers, etc. Weight, 110 lbs.
Price, each.....**$9.65**



No. 1-A-150. This Hall Tree is 80 in. high, 35 in. wide. It has a diamond shaped mirror with curved sides and corners, measuring 16x16 inches. Beautiful counter sunk panel back. Made of quartered oak, finished golden. Cast brass coat hooks, hinged seat, boot or shoe receptacle, umbrella rack and drip pan. Weight, 125 lbs.
Price, each.....**$12.75**



No. 1-A-378. This Hall Tree consists of two pieces to match as follows: Mirror measuring 2 ft. 10 in. wide by 17 in. high. The seat measures 3 ft. 3 in. wide and 3 ft. 3 in. high. It has broad shaped legs, wide arms and five handsome spindles in back. The seat is hinged, and there is a large compartment below for storing brushes, rubbers, etc. The entire construction is of choice grained quartered oak, finished in a rich shade of golden. We will sell these hall trees either separately or complete. Weight, 115 lbs.
Price, top only.....**$ 4.50**
Price, seat only.....**6.75**
Price, complete.....**11.25**

No. 1-A-381. This Hall Tree is made from selected quarter sawed oak, finished golden. It is hand rubbed and polished to a mirror-like brilliancy. The mirror is 2 ft. 9 in. high and 1 ft. 10 in. wide. The glass is flawless beveled plate. Note the roll edge all around, which adds to its appearance. It has a four double hat arrangement. Seat is 3 ft. 3 in. high and 3 ft. 4 in. wide. It is elegantly designed, and is as perfect as man can make. Note the hinged seat with extra double compartment below for storing rubbers, shoes, boots, etc. Weight, 100 lbs.
Price, top.....**$6.80** Price, base.....**$ 9.00**
Price, complete.....**15.80**

No. 1-A-151. This hall rack is a very elegant piece of hall furniture. It measures 78 inches high and 52 inches wide. This design is very simple. The great beauty of this piece is that the wood is finely matched throughout. It is made of quarter sawed white oak, finished golden. The entire body is water rubbed and hand polished to a piano luster. Its a piece of furniture that could not be duplicated elsewhere for less than $25.00. The top of mirror is slightly rounded and has a genuine imported French beveled plate glass, measuring 30 inches wide and 24 inches high. The back contains 2 deeply cut oblong panels. Bronze drip pan and umbrella rack. Weight, 165 lbs.
Price, each.....**$17.00**

No. 1-A-365. This quarter sawed oak umbrella stand is made of the finest and can be furnished in golden Early English, and weathered oak finishes. Nothing finer of its type is manufactured. Is an ideal article for office, residence, club house, hotel or restaurant use. Has 8 compartments for umbrellas, walking sticks, etc. Weight, 25 lbs.
Price, each.....**$3.75**

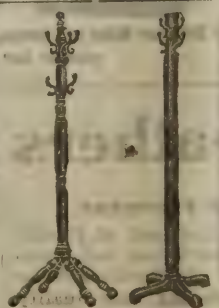
No. 1-A-365½. Same as above with four compartments. Weight, 16 lbs.
Price, each.....**$3.15**

No. 1-A-365½. Same as above, four compartments, made of plain oak, golden or weathered oak finish. Height, 28 inches. Weight 7 lbs.
Price, each.....**$1.15**

No. 1-A-451. We can furnish this costumer either golden or weathered oak or imitation mahogany. It is an attractively designed article and properly constructed of first-class material. Embodies perfect workmanship and rigidity. It is nicely finished. Has five solid brass hooks. Shipped K.D. to insure reduced freight charges. Weight 8 lbs.
Price.....**$1.20**

Same as above with wood spindles instead of brass hooks.
Price.....**$0.75**

These costumers can be furnished in white enamel at 20c additional.



1-A-451. 1-A-450.

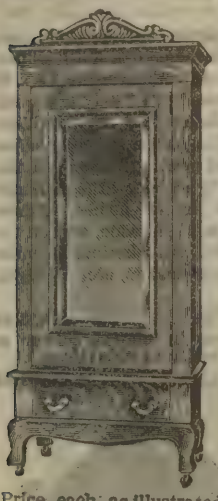
No 1-A-450. This high grade mission costumer is made of solid oak and can be finished in either weathered or golden oak finish. It is substantially constructed, finely finished. Has four double hooks at top. Extreme height 5 feet, 5 inches. Weight, 10 lbs.
Price, each.....**$1.40**

WARDROBES

All wardrobes illustrated and described on this page are carefully crated and shipped K. D. so as to eliminate possibility of breakage or damage in transit and to secure lower freight rates. All of them are so constructed that they can be easily put together by the most inexperienced persons quickly and without difficulty. All wardrobes measure about 16 inches deep inside, 18 inches outside.

No. 1-A-253. This attractive wardrobe is 7 feet high and 3 feet 5 inches wide. It has a single shelf near the top and a full width drawer with extention front at base. Note the clean cut ornamentations with which it is profusely adorned. The double doors have burled panels which add greatly to the beauty of the piece. A very convenient and practical receptacle for storing clothing, etc. Made of selected hardwood, golden finish. Weight, 150 lbs. Shipped from Southern Indiana.

Price, each $5.75



No. 1-A-256. This extremely high grade wardrobe is made throughout of selected figured oak finely finished in a rich shade of golden. 7 feet 3 inches in height and 36 inches in width. Massive construction; has a sanitary leg base which permits absolute cleanliness. Has finest quality French beveled plate mirror 40 inches high and 18 inches wide. The door is fitted with substantial lock. Note the overlapping edges which keep out the dust. The ends are attractively paneled. Weight, 150 lbs.

Price, each, as illustrated and described.... $14.20

No. 1-A-256½. We also have a few of these wardrobes of the same description as above with wood panel doors instead of mirror doors.

Price $9.65

Shipped from Southern Indiana.

No. 1-A-360. This handsome Colonial style wardrobe dresser is made throughout of solid oak, finishe golden. Entire frame is hand rubbed and polished. It is 5 ft. 10 in. high and 3 ft. 5 in. wide. Measures 20 inches deep, (front to back.) The dresser section is 21 inches wide and 20 inches deep, (front to back.) Contains 4 full sized drawers fitted with strong locks and brass knobs. Has extra quality French beveled plate mirror 24 inches high and 16 inches wide. Wardrobe section has 4 coat or skirt hangers on a drawing-out nickel rod, a trousers hanger on the door and a shoe holder at the side. Note that the entire front is of quarter sawed oak, the balance being constructed of plain oak. Weight, 195 lbs. Shipped from Southern Indiana.

Price, each $17.65

No. 1-A-262. This high grade wardrobe is 95 inches high and 45 inches wide. It is finely constructed by expert workmen and of the very best seasoned figured oak, finished in a rich golden gloss. The hardwood ends are also finished golden to conform with the oak front. The interior contains one long shelf across top. Has a projecting base which contains two drawers with brass pulls. The bottom of doors are neatly grooved and are perfectly paneled as are also the sides, having 4 panels each. Shipped K. D. from Southern Indiana. Can easily be set by anyone.

Weight, 170 lbs. Price, each..... $8.85

No. 1-A-259. This high grade combination wardrobe Chiffonier is made of solid oak, finished golden. The most noticeable parts of it are made of quarter sawed oak.

Shipped from Central Indiana. We also have a few of these in the mission type, weathered oak finish. The top contains a double door compartment especially designed for hats, etc., below which are five full sized drawers of varying heights for collars, cuffs, shirts, linen, etc. The right half is a wardrobe compartment admirably suited for keeping coats, trousers, skirts, etc., clean and unwrinkled. The door is fitted with a large French plate beveled glass; side 40 inches long and 16 inches wide, from which one can view the entire body. Weight, 240 lbs. Price..... $17.00

No. 1-A-259½. Same without mirror in door. Price..... $14.00

No. 1-A-263. This large oak wardrobe is of an unusual size, quality and finish. Is 100 inches in height, 50 inches in width. Weighs 225 lbs. From these dimensions it is easy to imagine how this article would appear in your home. The interior construction is similar to that of No. 1-A-262. Note the attractive roll ornamentations.

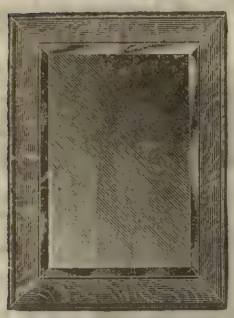
If you need an exceptional commodious, clean cut and desirable wardrobe, order this design, with the understanding that if it is not the greatest value in an article of its kind you can return it. Shipped from Southern Indiana. Weight, 220 lbs. Price..... $12.95

No. 1-A-255. The entire front of this wardrobe is made of solid oak finished golden. The ends, top and base are made of hardwood finished golden to correspond with front. Base projects and contains two deep drawers fitted with brass handles. Has two large upper doors which are fitted with French beveled plate mirrors, each measuring 50x12 inches. This wardrobe is 90 inches high and 40 inches wide. One of the prettiest of its type catalogued. We recommend it very highly in preference to the cheaper designs. Weight, 220 lbs. St. Louis stock. Price, each.... $15.40

No. 1-A-337. This wardrobe dresser is an article that will prove worth its cost many times over within a short period of time. It is almost a storage room as far as its capacity for clothes, etc., is concerned. is dust proof and its contents positively cannot become soiled from the accumulation of dust. It is made of American quarter-sawed oak, finished golden. We also have a few which are made of birch finished mahogany. Height, 6 ft. Width, 3 ft., 9 in. Wardrobe section has large paneled door with roll top. Interior compartment is fitted with hooks, etc., on which to hang wearing apparel of various sorts. Dresser section has a French beveled plate mirror in back, size 24 in. x 18 in. The various doors, etc., are carefully fitted and smoothly finished inside and out. Has large paneled ends and French shaped legs. One of the best values an the market for the money. Oval mirror of same size if preferred. Shipped from Southern Indiana. Weight, 200 lbs.

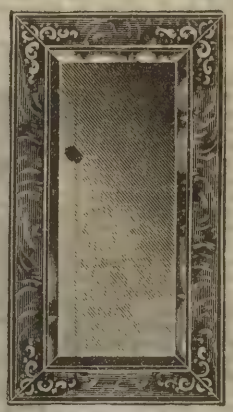
Price, either finish..... $15.15

MIRRORS AND HAT RACKS



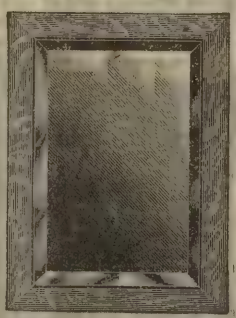
No. 1-A-285. A neat and attractive mirror, suitable for bed room or bath room use. Solid oak frame polished in a golden finish. It is of a fancy oval shape and is heavily moulded at outer edge. Please note that all glasses are guaranteed extra quality. This pattern can be supplied in the various sizes designated below and at prices named.

Size of Glass	Price Beveled French Plate	Price Pl. Fr. Plate	Price Best American Plate
6x 8	$0.30	$0.20	$0.09
7x 9	.40	.27	.10
8x10	.50	.35	.12
9x12	.60	.45	.15
10x14	.80	.60	.18
10x17	1.00	.75	.23
12x18	1.15	1.05	.27
12x20	1.50	1.20	.30
14x24	2.00	1.55	.40



No. 1-A-279. The various mirrors in this lot are made of absolutely first class material. Frames come in latest popular finishes such as golden oak, weathered oak, and birch mahogany. They are all highly polished and the corners are mounted with fancy raised brass ornaments. Note that the glass itself is in every instance the finest quality of imported French plate. When ordering, be sure and specify finish as well as size:

Size of Glass	Width of Frame	Plain French Plate Sells	French Beveled Plate Sells
7x 9	1½ in.	$0.33	$0.45
8x10	1½ in.	.39	.55
9x12	1½ in.	.48	.65
10x14	1½ in.	.60	.75
10x17	1½ in.	.70	.95
12x20	1½ in.	1.30	1.45
14x24	1½ in.	1.75	1.90
10x14	2 in.	.80	.90
10x16	2 in.	.85	.95
12x20	2 in.	1.35	1.65
14x24	2 in.	1.90	2.25
16x28	2 in.	2.50	3.00
17x30	3 in.	3.10	3.35
18x32	3 in.	3.35	3.95
18x36	3 in.	3.90	4.40
18x40	3 in.	4.55	5.15
18x40	4 in.	4.85	5.40



No. 1-A-286. A bathroom mirror of the finest beveled French plate glass. Plain hard finished white enamel frame.

Glass	Width of Frame	Price
9x12	1½ inch	$0.60
10x14	1½ "	.75
10x17	1½ "	1.00
12x20	2 "	1.35
12x24	2 "	1.80
14x14	3 "	1.25
16x16	3 "	1.55

No. 1-A-278. This handsome mirror hat rack has a solid oak frame which can be supplied in either polished golden or weathered oak finish. Note the French beveled plate mirror which measures 16 in. wide and 12 in. high. The frame is constructed of extra heavy stock and measures 38 in. long and 19 in. high. Is fitted with heavy brass hooks, each hook has two prongs for coats and 2 prongs for hats. Frequently sold at $7.50, by regular retail dealers. Weight, 16 lbs.

Price, each $3.60

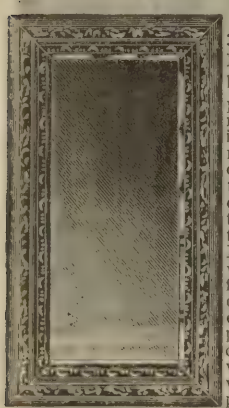
No. 1-A-277. Triplicate Mirror; solid oak frame, in golden or weathered oak finish as preferred. Each of the mirrors measure 18 x 40 inches and are guaranteed absolutely first quality French beveled plate. The mirror will reflect the full figure of the person standing before it, showing any desired position. You can also secure a back view by swinging the side mirrors. Total heighth is 74 inches. Frame around center mirror is 2½ in. wide, and on the side mirrors 2 in. wide. An absolute essential article for tailors, dress-makers, etc. Weight, 180 lbs.

Price, each $13.50

No. 1-A-277½. Same in cheval mirror in above design without swinging side mirrors.

Price, each $7.75

All items on this page are shipped from Chicago.

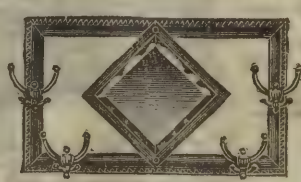


No. 1-A-1006. This French beveled plate mirror is 18x40 in. and is made of choice material. The quality of the glass is the best. Heavy, wide gilt frame. The design is an extremely pleasing one, and will meet with approval wherever shown. Weight 60 lbs. Price, each, carefully packed in box $4.75

No. 1-A-442. This Florentine designed mirror is 40 in. high and 18 in. wide. The glass is guaranteed extra fine quality, French beveled plate and is warranted flawless. Frame has open work carvings, is heavily raised in the center and is beautifully gilded. Price $5.15

No. 1-A-442½. Same as above with French bevel plate mirror, 24 in. high and 14 in. wide.

Price $3.15



No. 1-A-274. This hat rack is made of solid oak, finished golden. Is neatly embossed and fitted with four large double brass hooks, conveniently arranged. It has a French beveled plate diamond shaped mirror, 10 in. high by 10 in. wide. Weight, about 10 lbs.

Price, each $1.45

We do not sell "seconds."

No. 1-A-281. Hat Rack. Solid oak frame, 3 in. in width. Can be supplied in either popular golden or weathered oak finish. Large strong hooks of oxidized copper, cast in an antique design. Best quality French plate glass. We can supply this design with mirrors of the following sizes:

Size	Price	Size	Price
10x10	$1.25	16x16	$2.00
12x12	1.45	12x20	2.10
14x14	1.85	14x24	2.25

No. 1-A-1007. This handsome parlor mirror is 40 in. high and 18 in. wide. It is fitted with finest quality French beveled plate mirror, incased in a solid oak frame. It is richly ornamented with beautifully shaped mouldings, and has a neatly headed rim all around edge, next to the mirror, which does not show in illustration. We can furnish this design in a black, rich golden brown or gilt frame, as preferred. Weight, 55 lbs. Price, each, carefully packed in box $5.45

No. 1-A-276. French beveled plate parlor mirror. Size of glass 18 x 40 in. Outside measurements including frame, 51½ in. high and 30 in. wide. New Florentine Arabesque pattern, 7 inch frame which is bored and finished in gilt. Has a one inch burnished lining with ornamented lining on inner edge. Weight, 70 lbs. Regular wholesale price of this article is $9.20.

Price, each $5.45

No. 1-A-1005. This richly ornamented mirror is well made of choice material and is finished in the finest gilt. Frame is of pleasing appearance, in a combination of floral and scroll designs which measures 5 in. wide. The mirror itself is of the finest French beveled plate glass and measures 18 x 40 in. Weight, 65 lbs. Price, each, carefully packed in box $5.00

No. 1-A-200. Handsome pier glass solid oak frame, finished in golden. We also have a few with northern birch frames, finished in a rich mahogany shade. The French beveled plate mirror is 40 in. high and 18 in. wide. The total height of pier glass is 61 in. Full width is 27 in. Note raised column hand carved beaded ornaments at sides. The top is fitted with three small diamond beveled plate mirrors each 2½x3½ in., adding greatly to the beauty of the design. Weight, 75 lbs.

Price, each $7.35

"QUALITY" CROCKERY AT BARGAIN PRICES

$6.00

No. 1-A-1046. This 100-piece Dinner Set is an exact reproduction of a very costly Dinner Service and the design is such as will appeal to people who have refined tastes. The entire set is made of pure white genuine semi-porcelain ware, absolutely perfect in shape and neatly embossed with small clusters of pink roses and buds banked in soft green foliage. The scroll embossing of the ware and the elaborate manner in which the edges of all pieces are heavily traced in rich gold free hand work, makes it show up to the best advantage. For assortment see No. 1-A-1100 below. Price, as illustrated and described.....**$6.00**

This Magnificent 100-Piece Dinner Set is Offered at Less Than Cost of Production

$7.25

No. 1-A-1047. At $7.25 we offer this high-grade 100-piece Dinner Service, unquestionably one of the greatest values ever catalogued by any concern. This ward is of light weight and of pure white body. It is deeply and richly enameled and embossed with a continuous oriental border of coin gold. For assortment see No. 1-A-1100 below. Price.....**$7.25**

$9.75

No. 1-A-1100. The celebrated china makers of France and England have gained a universal reputation for the Classic Border Pattern they produce with coin gold treatment on fine semi-porcelain. These designs are used almost entirely by the smartest families and are very much in demand. This complete dinner service of 100 pieces is an exact reproduction of the famous St. Regis banquet service of white and gold. The ware is light weight and of pure white body. Deep rich enamel and embossed with a continuous oriental border with a design of coin gold. The effect is a delicate gold lace edge which is harmonized by the most exquisite decorations ever placed into a high grade dinner service such as this represents.

The scroll embossing of the ware and the elaborate manner in which the edges of all pieces are heavily traced in rich gold free hand work renders this the most tasty, most exquisite and richest design of table service yet produced. The natural colored roses and other popular flowers with green foliage are so perfect that they are most realistic. The 100-piece dinner set of this beautiful ware is made up as follows:

12 Dinner Plates	12 Saucers	1 Sugar Bowl (2 pieces)	1 Salad Bowl	1 Bread Plate
12 Breakfast Plates	6 Berry Dishes	1 Large Platter	1 Pickle Dish	12 Individual Butter Dishes
12 Soup Plates	1 Berry Bowl	1 Small Platter	1 Large Pitcher	12 Sauce Dishes
12 Cups	1 Cream Pitcher			

Price, as shown above.....**$9.75**

High Grade Turkish Rockers

$8.25

No. 1-A-27. A beautiful and attractive Turkish rocker. Frame is made of solid Northern birch, in a rich mahogany finish. It is upholstered with a good quality imitation leather which is guaranteed to wear and look well. Large and roomy seat. Size 40 inches high, 30 inches wide and 26 inches deep front to back. Oscillating flat form rocker base. Diamond tufted back, nicely trimmed in front and on top with a hand made ruffle. Guaranteed spring construction, non-sagging seat. Filling consists of moss with elastic cotton felt top. Weight, 90 pounds.
Price, each $8.25

No. 1-A-30. A moderate price Turkish rocker of high class design. Attractive appearing parlor or library piece. Well proportioned, finely constructed, hand tufted throughout. Fitted with non-pull-out buttons; rounded back, pillow head-rest. Just the right shape to afford the maximum of comfort. The platform base is concealed with a handsome, hand-made leather fringe. Artistically ruffled ears and front. Filling throughout is Canadian moss, overlaid with cotton felt. Upholstered in genuine leather. Shipping weight, 90 pounds.
Price, each $18.30
Herrington spring, extra 2.00

This patented oscillating spring is the finest yet devised and will permit the chair to tip or give at any angle, thus doubling the comfort of any Turkish chair. 5 year guarantee.

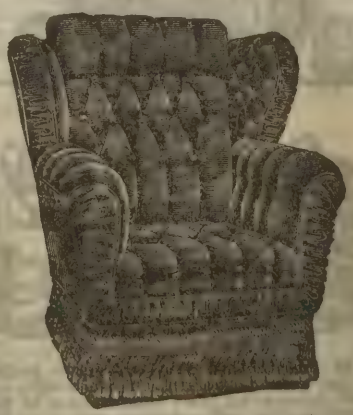
No. 1-A-33. This comfortable Sleepy Hollow Turkish rocker is everything that its name implies. Because of its peculiar construction, it gives the highest degree of comfort. Seat, back, ears and arms are all hand tufted and ruffled; leather fringe around base. Filling consists of Canadian moss with cotton felt top, covered with genuine leather, warranted not to chip or crack. Shipping weight, 105 pounds.
Price, each $20.50
No. 1-A-33½. Same as above with Herrington spring $22.50

$10.95
Buys this Turkish Rocker.

No. 1-A-28. A roomy and comfortable Turkish rocker, standard size. Standard spring construction, diamond tufted back; upholstered in royal leather. Cushion head-rest across back, large ears. Upholstery is of a choice quality elastic cotton felt and Florida moss. Exceptional bargain. Weight, 100 pounds.
Price, each $10.95

We offer bargains in upholstered furniture impossible to secure elsewhere.

No. 1-A-31. A substantial Turkish rocker at unusually low price. Constructed of high grade material throughout and is full standard size. Guaranteed oil tempered spring construction. Polished quarter sawed oak front, finished in a rich shade of golden. Has high back and ears which add greatly to its comfort. Ruffled front, arms and ears. Upholstered in genuine leather. Weight, 95 pounds.
Price, each $16.40



No. 1-A-34. An extra large and finely constructed Turkish rocker upholstered in a good grade of genuine leather and fitted with high carbon oil tempered spring construction. Has tufted ruffling and upholstering throughout. Leather fringe around base, mounted on Herrington oscillating spring. Weight, about 100 pounds.
Price, each $27.25

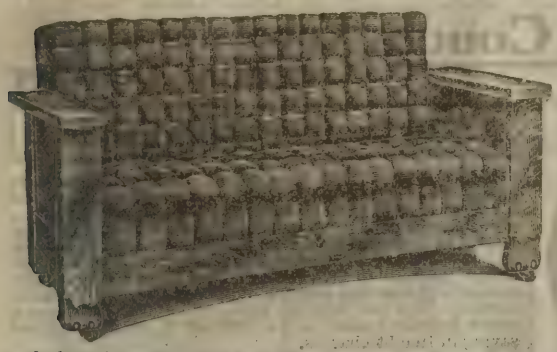
No. 1-A-29. This Turkish rocker is made of selected Northern birch, in a rich mahogany finish. Oil tempered high carbon spring construction. Roomy spring seat. Diamond tufted back, roll top, large side wings, ruffle trimmed front and sides. 30 inches wide, 24 inches deep, 39 inches high. Side wings extend 9 inches to the front. Weight, 95 pounds.
Price, each $15.00

No. 1-A-32. This unique over-stuffed Turkish Sleepy Hollow rocker is of an entirely original design, and one which will appeal to those who want a moderate priced piece of furniture containing the exclusiveness and originality of costly designs. Back and seat are one continuous length, made extra wide so as to fit the body in any position. Upholstered with tow and hair. It is tufted along English lines with large tufts and non-pull-out buttons. Has roll arms, large ears and front. Makes an ideal library or parlor chair. Large hand carved claw feet. Black Boston leather upholstery. Shipping weight, 75 pounds.
Price, each $10.65

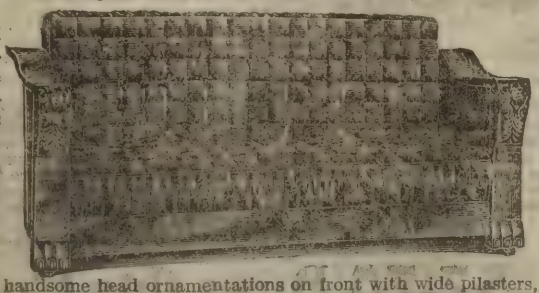
No. 1-A-35. The size, elegance, workmanship and rich design of this Turkish rocker is recommended to everyone desiring something extra fine in a Turkish rocker. It is upholstered throughout with an excellent grade of genuine leather, is equipped with spring seat and spring arms of the finest guaranteed steel construction. Highly polished quarter sawed oak frame, large claw feet. Equipped with extra heavy Herrington spring, guaranteed against breakage by the manufacturers for five years. Weight, 105 pounds.
Price, each $25.65

AUTOMATIC BED DAVENPORTS

The various Davenports listed on this page are shipped from our Chicago Warehouse stock. The ends of these davenports are detached from the frames so as to prevent breakage and also reduce freight expense. These davenports are very easily and quickly assembled. When ordering be sure and specify the kind of upholstering and color desired. Also state whether oak or mahogany finish is preferred where description describes both.

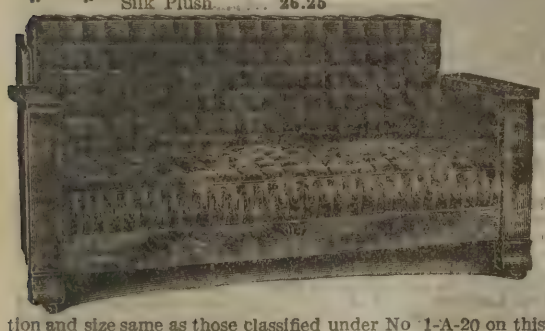


No. 1-A-19—We illustrate herewith a strictly high grade Bed Davenport of a type that has proven very popular in Chicago. The upholstering is absolutely first-class and consists of cotton felt over hair. These Davenports are extremely well made, have biscuit tufted top with full spring seat and back. The springs are hand tied and have interlacing supports above and below, fitted with non-pull-out prong buttons. Has wardrobe underneath, running full length. Can be furnished with either American quarter oak or birch mahogany frame. Length, 6 ft. 8 in. Width (when opened into a bed), 3 ft. 10 in. Weight, 250 lbs. Upholstered in Boston leather. Price, each..**$14.95**



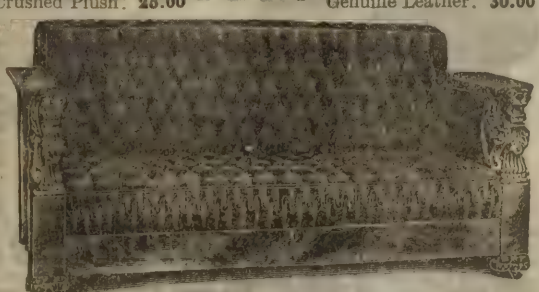
No. 1-A-21—Quarter-sawed oak Davenport. Same size and description as others described on this page. Ruffled top and front, extra broad shaped arms and carved claw feet, large handsome head ornamentations on front with wide pilasters, works automatically and guaranteed not to get out of order. We especially recommend these Davenports upholstered in genuine leather. Weight, about 250 lbs.

Price, each, Velour..... **$17.50**
" " Royal Leather.. **19.95**
" " Silk Plush..... **26.25**
Price, each, Crushed Plush.. **27 25**
" " Genuine Leather. **32.00**



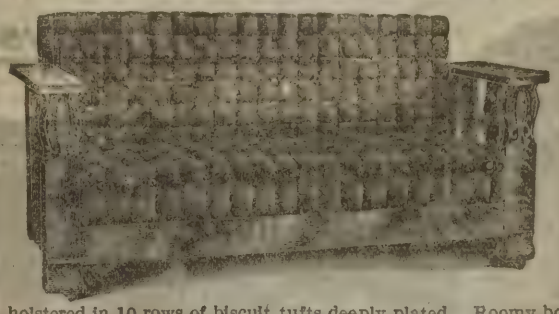
No. 1-A-23—This Davenport is of a plain Mission type, entirely devoid of carvings and elaborations. Its attractiveness is manifest in the quality of the wood and finish; colonial legs, broad front pilasters, wide arms, biscuit tufted body construction and size same as those classified under No 1-A-20 on this page. Weight, about 250 lbs. Quartered oak or birch mahogany frame.

Price, Velour..... **$15.50**
" " Royal Leather... **18.25**
" " Silk or Crushed Plush. **25.00**
Price, each, Brocaded Verona Velour..... **$20.00**
" " Genuine Leather. **30.00**



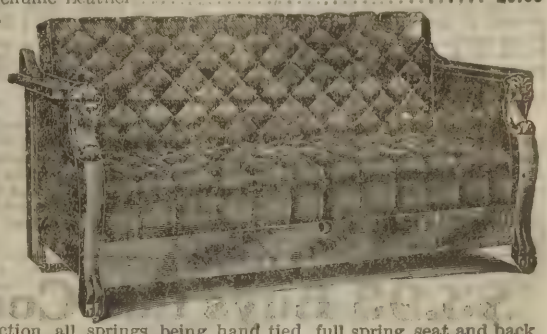
No. 1-A-25—This automatic Bed Davenport can be furnished in either quartered oak or birch mahogany frame. It is hand rubbed and polished to a piano finish, has absolutely the very best quality of filling with fully guaranteed spring construction in seat and back. Top consists of 10 rows large finely upholstered diamond tufting, large spacious wardrobe below, running full length, when open measures 46 inches wide and 85 inches long. Shaped arms and heavy pilasters. The heads on posts are hand carved. Weight, about 260 lbs.

Price, each, Velour Plush..... **$26.00**
" " Brocaded Verona Plush..... **27.50**
" " Imported Silk Tapestry..... **36.00**
" " Silk or Crushed Plush..... **33.75**
" " Royal Leather..... **29.50**
" " Genuine Leather..... **39.75**



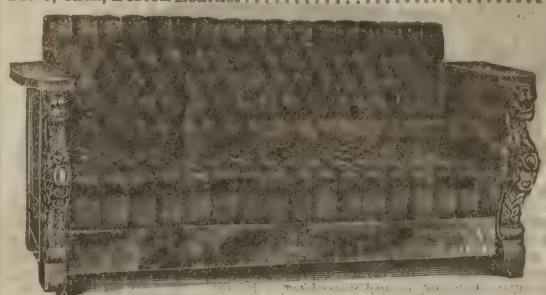
No. 1-A-20—The Bed Davenports classified under this number as shown in accompanying illustration, can be furnished with either quarter-sawed golden or weathered oak finish, have finest spring construction, upholstered in 10 rows of biscuit tufts deeply plated. Roomy box for storing wardrobe or other articles beneath. Instantly convertible into a bed with a sleeping surface of 3 ft. 10 inches wide and 6 ft. long. Extreme outside length 80 inches. Can be furnished in various covers as designated below. Weight, 250 lbs. When ordering state finish and upholstering desired.

Price, each, Velour..... **$13.75**
" " Royal Leather..... **15.25**
" " Genuine Leather..... **26.00**



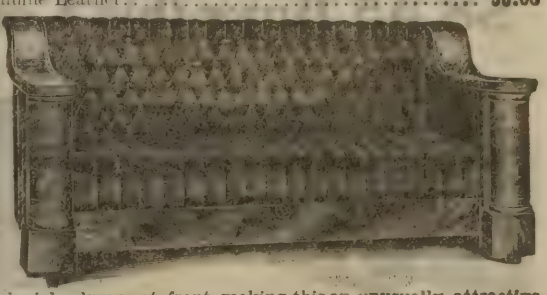
No. 1-A-22—These Davenports can be furnished with either American quarter-sawed oak or birch mahogany frames. This is a high-grade design of an unusually pleasing type. Automatic, can be used as a parlor Davenport or a bed. Has strictly high-grade spring construction, all springs being hand tied, full spring seat and back. Fillings consist of flax, tow and cotton with hair top. Broad arms with French shaped upright and carved feet, surmounted with composition carved heads, diamond tufted top. Weight, about 250 lbs.

Price, each, Boston Leather..... **$20.60**



No. 1-A-24—Quartered oak or brick mahogany Bed Davenport with broad shaped arms and handsome projecting griffin fronts, has colonial legs and solid end panels, guaranteed spring construction. The filling consists of Canadian moss with elastic felt top. Top is deeply biscuit tufted. (See description of No. I-A-20 for size.) Weight, about 250 lbs.

Price, each, Royal Leather..... **$24.00**
" " Brocaded Verona Velour, any color..... **25.00**
" " Silk Plush, any color..... **30.00**
" " Silk Crushed Plush, any color..... **30.00**
" " Genuine Leather..... **35.00**



No. 1-A-26—This massive automatic Davenport Sofa Bed can be furnished in either hand polished birch, mahogany or selected quarter-sawed oak. Has broad sweeping arms running to top of back and extending to the massive Colonial columns at front, making this an unusually attractive piece of parlor furniture. The beauty of this piece cannot be fully appreciated unless you see the article itself. Length, 86 inches; width (extended into bed), 46 inches. Weight, 280 lbs.

Price, each, Brocaded Verona Plush..... **$30.00**
" " Royal Leather..... **34.00**
" " Silk Plush..... **37.50**
" " Crushed Plush..... **37.50**
" " Genuine Leather..... **46.50**

High Grade Couches at Wrecking Prices

$10.00 Buys This Couch Upholstered in Genuine Leather

A $20 Leather Value For $10

No. 1-A-70. This exceptional Couch is positively one of the greatest values we have ever offered. It has an extra heavy kiln dried frame of quartered oak, finished in a rich shade of golden. Couch is 27 in. wide, and 76 in. long. Height of head end from floor 28 inches. Height of foot end 19½ in. It has 24 rows of tufting, 7 tufts wide, which makes 168 tufts in all. The scroll and floral design carving is clean cut and very pleasing in appearance. Good quality casters. Legs are fastened with bolts and thumb screws, which enable couch to be shipped K. D. at a decided saving in freight charges.

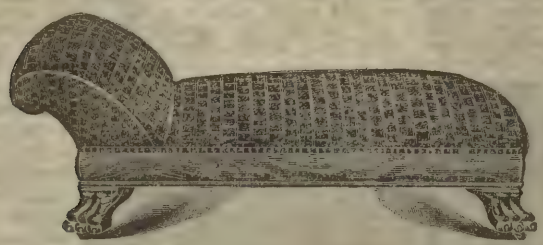
Interior construction is open to inspection and is arranged so as to avoid accumulating dust. Has heavy oil tempered spring construction. The head end has six additional oil tempered coil springs.

The prong buttons are fastened on the under side with composition washers, which absolutely prevent any possibility of tufting working loose. The filling consists of cotton felt over Canadian moss. The various covers in which this couch is upholstered are high grade in every respect. Shipping weight, 75 lbs. If you don't care to put more money into a better couch order this one. The value will surprise you.

Price each, Figured Velour ..... $ 6.95
Price each, Royal Leather 7.25
Price each, Genuine Leather 10.00

When you purchase a couch whether from us or elsewhere, always bear in mind that there are two essential features required in a couch not contained in every piece of furniture, viz., durable spring construction and elasticity. There is a vast difference between a good inexpensive couch and a cheap couch which will sag and become hard and lumpy with little usage. A good couch has oil tempered carbon spring construction which eliminates any possibility of sagging on any part of top. It maintains a perfect tension in spring, neither giving nor holding too much, yet enough to insure comfort and ease while occupying couch. The couches listed on this and the following pages are guaranteed to contain these features, and furthermore to have all the originality of design and beauty of outline desirable in a couch. These designs were selected out of hundreds as the best values we could offer for the money. You make no mistake in ordering any one of them. We save you money on any couch you select. All couches are shipped from Chicago warehouse stock.

$3.95 Buys this Couch



No. 1-A-71. The Couches classified under this number are inexpensive and simply designed, yet one of the greatest values ever offered for the money. Couch has a plain top and head roll with an extra heavy head rest containing six oil tempered springs. The body has twelve guaranteed oil tempered springs, resting on a slat bottom, connecting at both sides of frame, making this couch rigid, non-sagging and comfortable. Quartered oak frame, finished in golden gloss. Length 83 in.; width 28 in. Filling consists of Canadian moss with a heavy cotton felt top. Weight, 75 lbs.

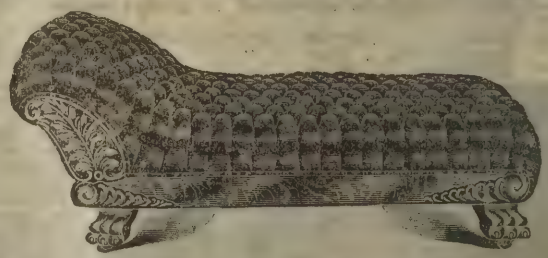
Price each, Velour $4.35
Price each, Boston Leather 3.95

$8.35 Buys this Couch

No. 1-A-73. This quarter sawed oak frame Couch has a diamond tufted top size 23x76 in. The interior construction is the same as you will find described under No. 1-A-54. The design is unusually attractive and high grade in every respect. It has a much heavier spring construction than you will find in the ordinary couch. Shipping weight, 80 lbs.

Price each, Royal Leather ..... $ 8.35
Price each, Velour 8.35
Price each, Genuine Leather 13.95

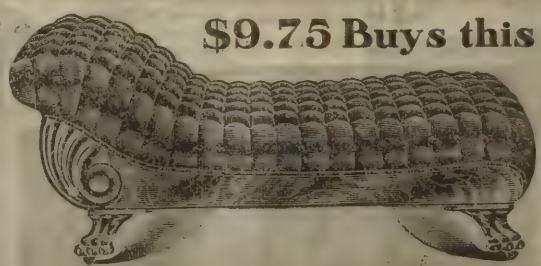
$7.75 Buys this Couch



No. 1-A-72. Just fifty of these Couches left. This design has proven to be one of our best city sellers. It is a plain yet rich appearing couch entirely high grade in every respect, embodying all features described under 1-A-54. If you want a genuine bargain, you make no mistake in purchasing one of these couches. It is a value that is offered but seldom and must be considered a good "buy" at the low prices we quote. Shipping weight, 77 lbs.

Price each, Royal Leather ..... $ 7.75
Price each, Genuine Leather 11.75

$9.75 Buys this Couch



No. 1-A-74. The Couch illustrated herewith, has genuine quartered oak frame, heavily veneered, finished in a rich shade of golden. Heavy hand carved scroll at head end with deep cut claw legs. Filling consists of Canadian moss with cotton felt top, faced with 9 ounce canvas duck, fastened with the best non-pull out steel prong buttons. Body of couch contains 24 of the finest tensioned guaranteed steel springs, while the head end contains 9. Has seven rows of biscuit tufting. The large number of springs found in this couch add materially to its life and comfort. Shipping weight, 85 lbs.

Price each, Figured Velour ..... $ 9.75
Price each, Block Velour 9.75
Price each, Moroccoline Leather 10.25
Price each, Silk Plush 12.95

No. 1-A-74½. Same as above excepting that it is upholstered with an extra fine grade of genuine leather of special tannage, fully guaranteed to give universal satisfaction and not to open or check. Sample sent on request.

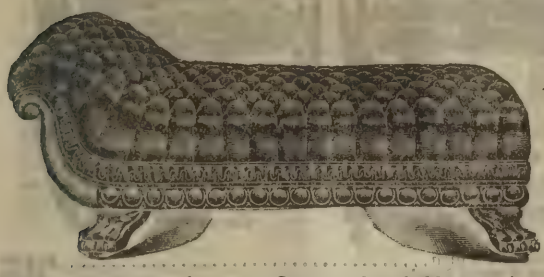
Price, each $19.25

High Grade Couches at Bargain Prices

ALL OF THE COUCHES LISTED ON THIS PAGE ARE SHIPPED DIRECT FROM CHICAGO

As explained on preceding page these couches were made of the very finest materials by most reputable and prominent manufacturers of upholstered furniture. The leather with which these couches are upholstered will give absolute satisfaction and positively will not check, split or open. Samples gladly furnished on request. All upholstering material, such as Chase Leather, Imitation Spanish Leather, Verona, Velour, Plush, etc., are guaranteed highest grade obtainable. Springs are not fence wire, but highly carbonized and oil tempered steel. Each couch on this page has 28 springs in the top and 9 in the head. Also full spring edges. They are fitted in a frame which prevents any possibility of them being forced through covering. Fillings are of Canadian moss with heavy elastic felt top. Made to stand the severest test of all—TIME. All heads are carefully set to the proper angle for the most comfort. The frames are highly polished and are as described below. These couches are shipped with legs detached so as to secure lowest freight rates.

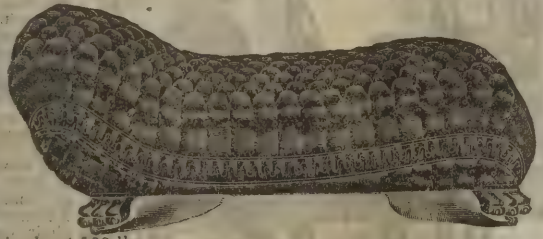
$11.95 Buys This Couch



No. 1-A-59. This couch is 78 inches long and 30 inches wide, selected quartered oak frame with heavy embossed sides, hand carved legs, finished in rich shade of gold, 7 rows of diamond tufting faced with heavy canvas duck fitted with non-pull prong buttons. Legs are detachable so as to secure compactness in shipping and accordingly less freight rate. Weight is 95 lbs.

Price, Boston Leather.....$11.95
" Genuine Leather.....23.00

$13.50 Buys This Couch



No. 1-A-61. This diamond tufted Gondola design couch is 76 in. long and 30 in. wide. An exact duplicate of a very high priced design, and is an article that will please the most critical. Shipping weight, about 100 lbs.

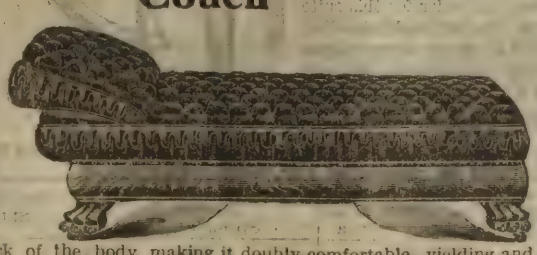
Price, Royal Leather.....$13.50
" Genuine Leather.....22.00

$16.50 Buys This Couch

No. 1-A-63. A unique designed couch built on decidedly novel and pleasing lines. It is unusually large, measuring 80 inches long and 31 in. wide. Solid quartered oak frame, and hand carved lion's claw feet. Beautiful ruffled base. Weight, 105 lbs.

Price each, Imitation Leather.....$16.50
" " Genuine Leather.....27.50

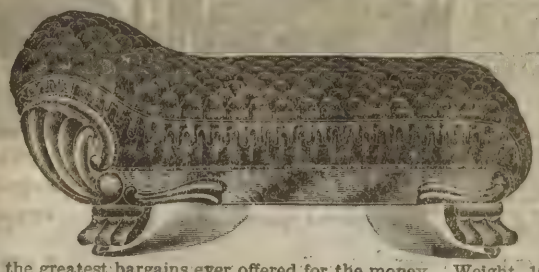
$30.00 Buys This Magnificent Couch



No. 1-A-65. Colonial design couch, one of the finest examples of highest grade workmanship ever offered by us. Note the pillow head piece which has extra spring work built above the spring work of the body, making it doubly comfortable, yielding and more luxurious than the ordinary couch. Has large swelled panel base finely polished, showing to best advantage the beautiful graining of the quarter sawed oak wood used in the manufacture of the frame. Weight 100 lbs.

Price.....$30.00

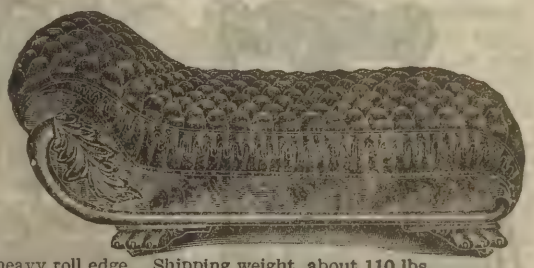
$25.00 Buys This Couch



No. 1-A-60. This couch is upholstered with genuine leather, quarter-sawed golden oak frame, size of top 30x76 in., diamond tufted top; absolutely high grade in every respect. Hand carved claw feet. One of the greatest bargains ever offered for the money. Weight, 100 lbs.

Price, Genuine Leather.....$25.00

$25.00 Buys This Couch



No. 1-A-62. Genuine leather couch, diamond tufted top, Gondola design, 76 in. long, 30 in. wide. This will prove a very popular seller, as it is extraordinary value for the money. Upholstered in genuine leather. Notice the heavy roll edge. Shipping weight, about 110 lbs.

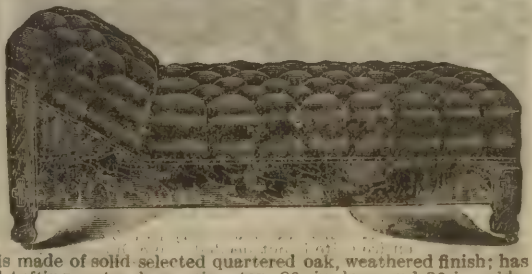
Price.....$25.00

$30.00 Buys This Double Decked Spring Couch

No. 1-A-64. A substantially designed couch, embodying high grade workmanship and exclusive originality of design. Length 76 in., width 30 in. Neat head panel, carved claw feet, finely executed double ruffled side. Upholstered in genuine leather.

Price.....$30.00

$16.35 Buys This "English Style" Tufted Couch

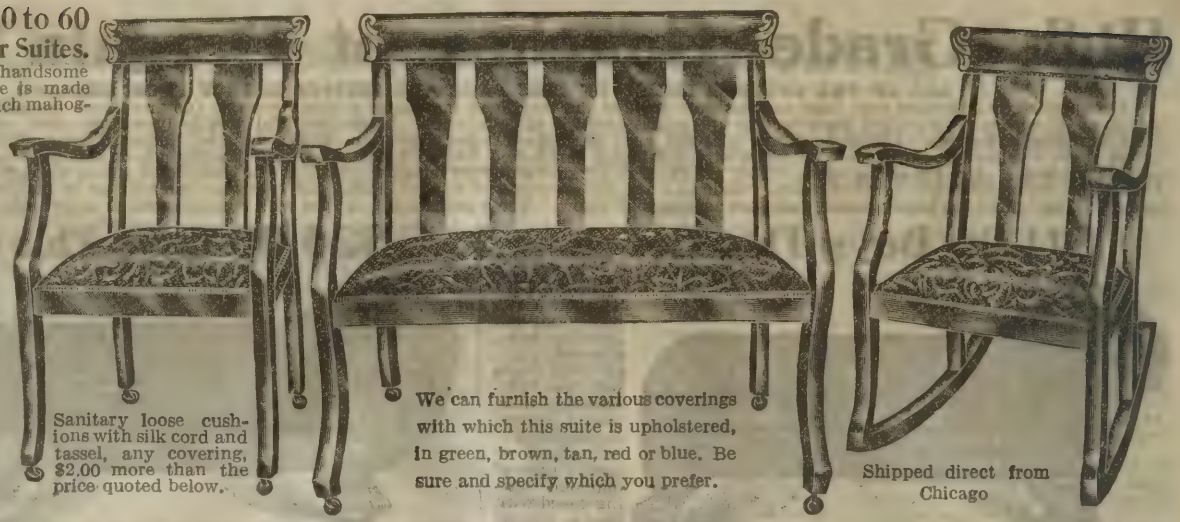


No. 1-A-66. This beautiful speciman of arts and crafts workmanship, commonly called Mission Type, is one of the best couch values ever offered in this class of furniture, the frame being purely mission in style, is made of solid selected quartered oak, weathered finish; has diamond shaped tufting, extra large size top, 80 in. long and 30 in. wide. This couch was made to sell for $50.00, in genuine leather, which can be easily verified by comparing it with any similar design at any local furniture store. We can furnish it in either genuine leather or imitation Spanish leather, the latter covering being very attractive and serviceable and at the price quoted enables the prospective purchaser to add this piece of furniture to his home at a very moderate price. Weight, 95 lbs.

Price, Imitation Spanish Leather.....$16.35
" Genuine Leather.....30.00

We Save You 30 to 60 per cent on Parlor Suites.

No. 1-A-48. This handsome three-piece parlor suite is made of selected birch in a rich mahogany finish. Backs are artistically carved and shaped so as to give the most comfort. Large seats, extra heavy steel carbon oil tempered spring construction, shaped arms, continuous posts with quality casters. Sofa is 42 in. long, 38 in. high and 19 inches deep. Weighs 40 lbs. Easy chair is 38 in. high, 22 in. wide and 19 in. deep. Weighs 30 lbs. Rocker is 37 in. high, 22 in. wide and 19 in. deep. Weighs 30 lbs. Entire suite weighs 100 lbs. Loose cushions furnished at $2.00 over prices quoted below:



Sanitary loose cushions with silk cord and tassel, any covering, $2.00 more than the price quoted below.

We can furnish the various coverings with which this suite is upholstered, in green, brown, tan, red or blue. Be sure and specify which you prefer.

Shipped direct from Chicago

Price, Figured or Block Velour	$ 9.95	Price, Brocaded Silk Plush	$13.00
" Verona	11.50	" Brocaded Verona Plush	13.00
" Crushed Plush	13.00	" Boston Leather	13.75
" Silk Damask	13.00	" Genuine Leather	15.75

When ordering be sure and state color of upholstery preferred. We particularly advise green where mahogany frame is ordered.

While the parlor suites on this page are exceptional values, yet we advise the purchase of a higher priced suite, as you will find featured on pages 411 to 414.

Shipped direct from Chicago.

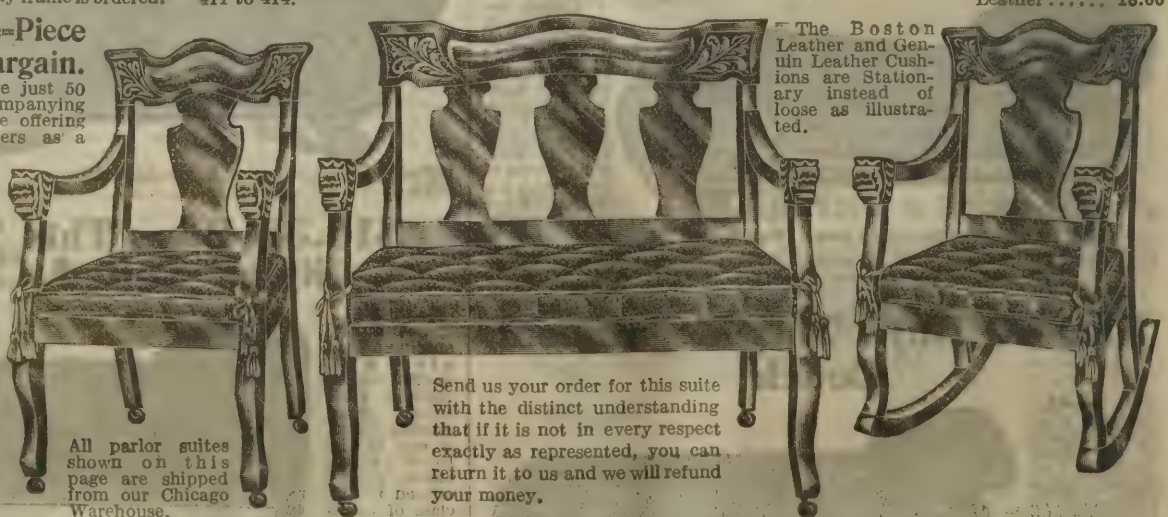
AN EXCEPTIONAL VALUE at Prices Quoted Below

No. 1-A-49. Mahogany finish three-piece parlor suite, made of seasoned Northern birch finely finished in imitation mahogany. Backs and fronts of arms are handsomely and attractively decorated with genuine hand made carvings. Fine spring construction. Suite consists of divan, arm chair and roomy rocker. Size of divan, 39 in. high, 41 in. long, 20 in. deep. Rocking chair and arm chair measure each 39 in. high, 26 in. wide and 20 in. deep. Weight of suite complete, 115 lbs.

Price, Verona ... $13.25
Price, Silk Plush 15.50
Price, Brocaded Plush 15.50
Price, Genuine Leather 18.00

A Special Three-Piece Parlor Suite Bargain.

No. 1-A-50. We have just 50 parlor suites like accompanying illustration which we are offering to our country customers as a special parlor suite value. The suite was but recently designed, and is an exceptional value in every sense of the word. Each piece is fitted with a box edge, button tufted loose cushion, perfectly fitted and fastened by a silk tasseled cord. Cushions are upholstered with elastic cotton felt and hair. We have a few of these suites with stationary spring seats instead of loose cushions, which we furnish at $2.00 less than the price quoted below. The back of this suite is higher than what you get in an ordinary design, and seats are extra wide, both of which add materially to the comfort and attractiveness of the design. Weight, 115 pounds. We are willing to break this suite and sell odd pieces if entire suite is not needed. We, however, advise the purchase of the suite complete.



The Boston Leather and Genuin Leather Cushions are Stationary instead of loose as illustrated.

All parlor suites shown on this page are shipped from our Chicago Warehouse.

Send us your order for this suite with the distinct understanding that if it is not in every respect exactly as represented, you can return it to us and we will refund your money.

	Figured or Block Velour	Brocaded Verona Plush	Crushed Plush, Silk Damask, Brocaded Silk Plush, Silk Plush and Verona	Boston Leather Spring Seat	Genuine Leather Spring Seat
Divan, only	$ 8.25	$ 8.65	$ 9.40	$ 8.65	$10.90
Rocker, only	6.75	7.15	7.50	6.75	8.65
Arm Chair, only	6.20	6.75	7.15	6.40	8.25
Suite, complete	19.50	21.00	22.50	20.00	24.75

Five-Piece Parlor Suite

No. 1-A-443. This finely finished and constructed five piece parlor suite is exactly like the illustration, but has one more parlor chair without arms, is entirely new in design, the frame being made throughout of selected birch finished a rich mahogany. The upholstered backs are richly scrolled and carved. The heavy upholstered seats are all supported with the best oil tempered guaranteed steel springs, heavily padded with elastic cotton felt and hair.

No. 1-A-444. When ordering this parlor suite be sure and specify color of upholstering you prefer. Unless otherwise specified we always ship cream.

Can be furnished in any of the following coverings of very best quality in all standard colors at the following prices.

	Weight	Figured Block Velour	Silk Plush or Crushed Plush Damask	Boston Leather, Genuine Leather	Brocaded Verona Plush
Price, Suite, complete as illustrated	275 lbs	$15.30	$20.90	$20.30	$18.90
Price, Divan	75 lbs	5.35	6.70	6.80	6.35
Price, Rocker	70 lbs	4.00	5.15	5.05	4.75
Price, Arm Chair	50 lbs	3.00	4.25	4.20	3.65
Price, Reception Chair	40 lbs	2.10	3.00	2.85	2.65

Five-Piece Parlor Suite

No. 1-A-1015. This five piece parlor suite is exactly like illustration, the fifth piece which is not shown being a duplicate of the arm chair. Note the frame is made of solid birch finished in a rich mahogany shade. Upholstered backs are richly adorned with deep hand carved ornamentations. Each piece contains an oil tempered spring construction over which is heavy filling, consisting of padded elastic cotton felt and hair. The arms are broad and shapely. The legs are nicely rounded. It is constructed so as to give the purchaser durability, at the same time approach a costly suite in appearance. In purchasing this suite you secure an asset which cannot be shown in illustration but is most assuredly embodied in this design, and that is: character and stately appearance.

Only four of the five pieces in this suite are shown in the above illustration. The fifth piece is the exact duplicate of the reception chair shown at right of arm chair.

	Weight	Figured or Block Velour	Brocaded Verona Plush	Silk or Crushed Plush or Broc. Silk Plush
Price, Suite complete	275 lbs	$18.25	$21.75	$23.95
Price, Divan	75 lbs	6.15	7.00	7.70
Price, Rocker	70 lbs	4.65	5.25	6.00
Price, Arm Chair	50 lbs	3.75	4.35	4.75
Price, Reception Chair	40 lbs	2.50	2.95	3.40

Five-Piece Parlor Suite

No. 1-A-445. This very heavy and extremely handsome 5-piece parlor suite is highly finished in a rich mahogany, wood of the frame being selected seasoned northern birch. It is hand rubbed and polished throughout. All ornamentations shown on the tops, upper corners and back panels are exceptionally clean and deeply cut. Genuine hand carving. The top also has a heavy roll which is in entire keeping with the broad shapely rolled arms. The legs, front standards, are simple yet very pleasing Colonial style. The construction throughout is the best that expert workmen with the proper materials can turn out.

	Weight	Figured Velour	Brocaded Verona Plush	Brocaded Plush, Silk Plush Bro. Silk Plush, Silk Damask	Genuine Leather
Price, Suite	280 lbs	$29.25	$31.35	$34.65	$47.50
Price, Divan	80 lbs	9.25	10.15	10.90	14.75
Price, Rocker	65 lbs	7.00	7.50	8.10	10.75
Price, Arm Chair	55 lbs	5.90	5.35	6.90	9.00
Price, Reception Chair	40 lbs	4.25	4.65	5.00	6.50

Three-Piece Parlor Suites

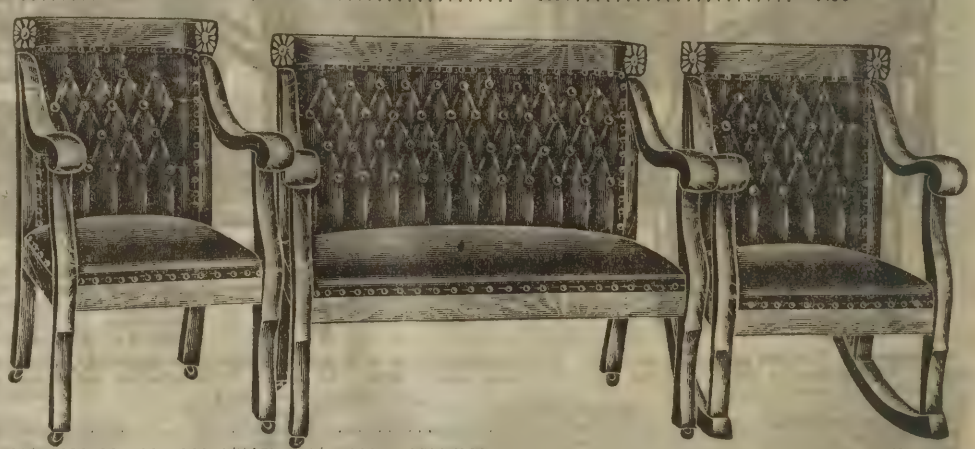
You save money by buying the complete suite.

All parlor suits and pieces on this page are shipped from Chicago Warehouse stock.

No. 1-A-1004. This three-piece parlor suite is artistically designed and rigidly constructed. It is made of selected birch finished mahogany shade, water rubbed and hand polished to a mirror like brilliancy. It is a French Empire period style design fashioned after a very expensive suite. Note the fancy panel backs which are veneered with genuine Cuban mahogany. This suite is richly adorned with deep clear cut hand carved ornamentations. The divan is 42 inches wide and 38 inches high and the seat 19 inches deep, front to back. The rocker and easy chair are of the same height and depth but 23 inches wide. We can supply this suite in any of the popular colors and best quality upholstering as specified below. The spring seats are of the finest oil-tempered construction. All three pieces are not only exceedingly handsome, but roomy and comfortable. Study the illustration carefully.

Price Each:—	Weight.	Figured or Block Velour.	Brocaded Verona Plush.	Crushed Plush, Brocaded Silk, Damask or Boston Leather.	Genuine Leather.
Suite, complete	115 lbs.	$18.50	$20.00	$22.40	$25.35
Divan	45 lbs.	7.50	8.35	9.45	10.65
Rocker	35 lbs.	6.10	6.75	7.35	8.35
Arm Chair	35 lbs.	5.70	6.25	7.00	7.90

No. 1-A-1003. Three-piece parlor suite. The lot on hand consists of quartered sawed golden oak and birch mahogany frames upholstered in various coverings as specified below. They are water-rubbed and hand polished to the highest luster and will equal in brilliancy the costliest piece of parlor furniture. The lines are dainty, yet substantial and pleasing. The legs and the arms are attractively shaped, the latter broadening towards the front and ending in a heavy roll. The seats are heavily, yet softly upholstered over the base and contain fully guaranteed oil tempered high tension coil spring construction. The filling consists of the most elastic material, being Florida moss, cotton felt, etc. Backs are diamond tufted with non-pull-out buttons. Rounded tops have ends with attractively hand carved figures to relieve the severe lines. We can furnish this suite in any color in the following coverings: Plain silk plush; figured, brocaded silk plush; silk damask or genuine leather. Illustration above shows the suite upholstered with genuine leather. Note that the cushions are removable and have silk cords with heavy tassels except in the leather covering which has spring cushion seats as illustrated.



Price, each, in covering described above, except the genuine leather, quartered oak or birch mahogany..... $31.50
Price, genuine leather, quartered oak or birch mahogany..... 34.50

$26.50

No. 1-A-1002. Those Who Desire a Stricly High Grade Parlor Suit of the Finest Manufacture will Certainly Appreciate the Great Value We Offer in the Wonderful Bargains We Have Classified in this Lot. We were fortunate enough to secure a limited lumber of these parlor suits at a recent manufacturer's sale and are now offering them at a fraction of their real value. As shown in illustration they are elaborately carved and because of their graceful outline and beautiful design, will prove a most beautiful addition to any parlor. Suite consists of sofa, rocker and arm chair, measurements of which we give below. Particular attention is called to the fact that the panels of this Suite are veneered with genuine striped Cuban mahogany, and also that the finish is water rubbed to a piano polish, which adds a great deal more to the value of a Suite than if it had a gloss finish. It has an indestructible steel construction, over which is upholstered the very finest quality of genuine leather. Also furnished with the highest grade of silk plush or crushed plush loose cushion seats, tied with silk tasselled cords.

Article	Width.	Depth.	Height	Weight.
Sofa	50 in	21 in	33½	60 lbs.
Rocker	24 in	20 in	33½	35 lbs.
Arm Chair	24 in	20 in	33½	30 lbs.
Price, silk or crushed plush				$26.50
Price, genuine leather				32.50

A New Design. 5-Piece Parlor or Library Suite

No. 1-A-51. A five-piece parlor suite, four pieces of which are illustrated herewith, made of selected birch finished in a rich mahogany, water rubbed polish. The fifth piece not shown is an exact duplicate of the small reception chair. The backs are diamond tufted in the best possible manner with non-pull-out buttons. All suites are of the spring edge type and are built over improved sanitary oil tempered steel springs. Has shaped legs and hand carved claw feet. An exceptional value in every way. If you want a massive suite of original design, we advise that you purchase one from this lot. Five of these pieces will completely furnish an ordinary parlor. Weight, 250 lbs. The dimensions of the various pieces are as follows: Sofa, 42 in. high, 45 in. wide, 20 in. deep (front to back). Rocker and easy chair are also 42 in. high, 24 in. wide and 20 in. deep. When ordering, be sure and specify what color upholstery you prefer. Write for prices on single pieces, stating just what you want, upholstery, colors, etc.

This five-piece parlor suite will furnish an ordinary parlor.

We especially recommend the purchase of this parlor suite upholstered in genuine leather as it gives the suite a harmonizing as well as stylish appearance.

PRICE OF SUITE COMPLETE IN THE VARIOUS COVERINGS IN WHICH WE CAN SUPPLY IT.

Figured or Block Velour	$33.50	Boston Leather	$44.00	Brocaded Silk Plush	$45.00	Genuine Leather	$59.75
Brocaded Verona Plush	37.50	Crushed Plush	45.00	Crushed Silk Plush	45.00		

Colonial Design. 5-Piece Parlor or Library Suite

No. 1-A-52. We illustrate herewith an unusually massive Colonial design five-piece parlor suite. The fifth piece which is not shown in illustration is an exact duplicate of the easy chair shown on extreme left. The feature of this suite is the shaped arms, running to the top of the back of each piece. The suite consists of Colonial Rocker, Sofa, Easy Chair and two Parlor Chairs. Frame is made of Northern birch brilliantly finished in a rich mahogany luster. Full spring edge upholstering with ruffled front. Finest oil tempered spring construction. Cotton felt and hair filling. Diamond tufted backs fitted with non-pull-out prong buttons. An immense amount of skilled labor and much time were required to make these suites. We purchased them at a recent manufacturer's sale and offer them to you at less than wholesale prices. All pieces are extra large and comfortable. Weight, 275 lbs. Coverings are all of the very choicest imported and domestic materials, in dark green, myrtle green, bronze green, tan, tobacco brown and maroon.

When ordering this parlor suite, tell us what color upholstery you prefer. Where not specified, we always ship green.

	Price		Price		Price		Price
Imported Silk Damask	$60.00	Crushed Plush	$60.00	Silk Plush	$60.00	Genuine Leather	$67.50

Colonial Design. 3-Piece Parlor or Library Suite

No. 1-A-53. A characteristic Colonial design three-piece parlor suite. Particular attention is called to the finely moulded, massive, continuous round frame work embodied in this suite. It is made of finely grained Northern birch, highly finished and polished in rich mahogany luster. Sofa is 50 inches long. All pieces are full standard size. Suite has finest upholstered spring edge seats, and diamond tufted back. Notice that the upholstery extends around corners of back and slightly toward front. Filling consists of high grade felt and hair. Shipping weight, 200 lbs.

We have a few broken suites on hand and can supply individual pieces. Write us stating explicitly, preference as to color and covering and we will submit quotations.

	Price
Figured Velour	$24.75
Block Velour	24.75

	Price		Price		Price		Price
Brocaded Verona Plush	$27.50	Silk Plush	$30.00	Brocaded Silk Plush	$30.00	Genuine Leather	$37.50
Silk Damask	30.00	Crushed Plush	30.00	Boston Leather	30.75		

Three-Piece Parlor and Library Suites

High Grade Three-Piece Parlor Suite.

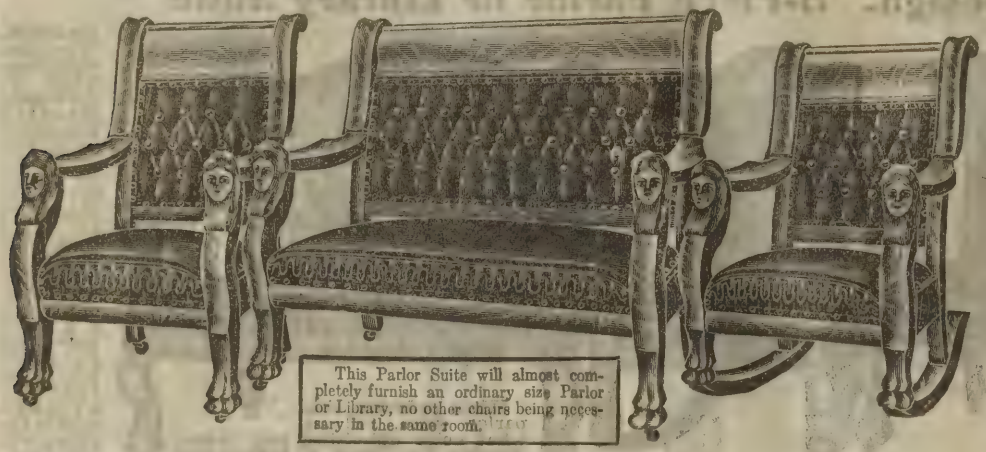
No. 1-A-101. This elegant three piece Parlor Suite is made of a finely grained northern birch, finished in a rich mahogany luster. It is water rubbed and hand polished to a mirror brilliancy. Has Renaissance style designing with finely executed carvings. Every portion is finely moulded and shaped by hand. Has large dragon head pilasters. Sofa is 52 in. long, while rocker and side chair are 26 in. wide. Depth of the various pieces, from front to back, is 26 in. each. Height, 34 in. Has diamond tufted backs and plain seats with guaranteed hand tied spring construction. A remarkable bargain, considering the high grade workmanship and beauty of design incorporated in this suite. Weight, 260 lbs.

When ordering this Parlor Suite upholstered in silk plush, be sure and specify color desired. Unless otherwise specified, we will ship green. Mention whether you wish frame in oak or mahogany finish.

All Suites on this page shipped from Chicago Stock

	Silk Plush.	Genuine Leather.
Price	$44.00	$47.50

One of the Best Values Ever Offered in a High Grade Parlor Suite.



This Parlor Suite will almost completely furnish an ordinary size Parlor or Library, no other chairs being necessary in the same room.

No. 1-A-102. This high grade Library or Parlor Suite is made with a quarter sawed oak frame finished in a rich shade of golden, water rubbed and hand polished. We also have a few of these suites with selected northern birch frames, polished to a rich mahogany luster. Suite contains three pieces, as illustrated, consisting of sofa, rocker and easy chair. Each piece is 46 in. high and 25 in. deep, front to back. Rocker and chair are 28 in. wide and sofa is 50 in. long. The design is an ideal combination of beauty and comfort, incorporating all the details of a strictly high grade suite without sacrificing any of the points of vantage found in other priced suites. Has heavy legs with finely carved claw feet. Has diamond tufted back secured with double prong buttons, reinforced with washers at the back which absolutely prevents any possibility of tearing through or pulling out. Broad shaped arms, grooved back posts, serpentine upper rails. A luxuriant, rich and imposing library or parlor suite, made by one of the most prominent manufacturers for the finest retail trade. The filling consists of low, cotton felt and hair. Upholstered in genuine leather. The full oil tempered spring construction is the most sanitary ever devised. All springs are hand tied. The spring edge is hand ruffled in a very attractive manner. Weight, 275 lbs.

Price, Quartered Oak, Genuine Leather Upholstery	$51.25
Price, Mahogany Finish, with Genuine Cuban Mahogany Back, Genuine Leather Upholstery	50.00

Renaissance Design, Turkish Tufted, Three-Piece Library Suite

We recommend this Parlor Suite to all desiring something exceptionally fine, entirely out of the ordinary, in other words, a strictly high grade piece of Parlor Furniture, better than the ordinary grades offered by the average retail dealer.

No. 1-A-103. This entire massive Library Suite is a fine example of Renaissance carving. Entire frame is executed in the finest detail seldom found in modern furniture. Besides being handsome and artistic, each piece of the suite is more comfortable and restful than any other parlor piece you could possibly purchase. It is upholstered in a Turkish tufted style, with diamond tufted back and ruffled front, upholstered all around. Has guaranteed oil tempered full spring construction, all springs being hand tied in the most sanitary manner. Frame is made of selected solid birch mahogany, hand carved throughout. It is highly polished to a mirror-like brilliancy. Filling consists of low, cotton and curled hair. Length of sofa is 54 inches, rocker and chair are 29 in wide. All pieces are 45 in. high and 32 in. deep (front to back). Weight, 300 lbs.

Price, each.	Silk Plush	$72.00	Price, each.	Crushed Plush	$72.00	Price, each.	Genuine Leather	$82.00

Bed Lounges, Adjustable Divans and Stationary Davenports

Bed Lounge.

No. 1-A-95. This bed lounge made with an American quartered oak frame; length, 6 ft.; width when closed, 23 in.; when opened as a bed, 46 in. wide. This lounge is fitted with a high grade woven wire spring with steel coil supports and covered with an elastic cotton top mattress, attached to frame. An exceptionally attractive and up-to-date design. Can be furnished in either figured or block velour in all the latest popular colors. Be sure to state preference as to color covering desired. Weight, 135 lbs.
Price, each.....$9.00

Bed Lounge.

No. 1-A-96. Colonial design bed lounge, American quartered oak frame; measures 6 ft. long and 23 in. wide. When open for use as a bed, width is 46 in. Back is paneled. The frame comes in golden oak finish only. The base is of artistic construction with heavy raised carved ornamentation. Has same spring construction and same quality mattress as described under No. 1-A-95 bed lounge, shown at left. This couch is upholstered with the very finest quality of figured velour and can be furnished in all the colors. Weight, 135 lbs. Price, each.....$11.50

All pieces illustrated and described on this page, shipped direct from our Chicago Warehouse.

Never before in the history of the furniture business has it been possible for any concern to offer such exceptional bargains as these pieces represent. Quality and low prices make a combination hard to beat.

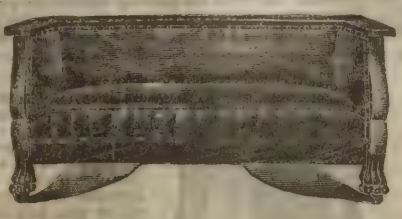
Most of these pieces come in various colored upholsterings. Where cloth fabrics are described, kindly advise color you prefer, otherwise we always ship green.

Adjustable Divan.

No. 1-A-104. Overstuffed adjustable divan. A very attractive and useful overstuffed parlor piece. Made of solid oak, finished in a rich shade of golden. Length when arms are dropped, 6 ft., 6 in.; height, 3 ft., 1 in.; width front to back, 2 ft. When closed as shown in illustration it is 4 ft., 7 in. in length. The style is distinctly Colonial, has massive claw feet and attractively moulded frame. Guaranteed oil tempered spring construction. Cotton felt and hair filling. No tufting to catch the dirt. Has nice rosette on the back. Coverings furnished in all the most popular colors. Weight, 100 lbs.

PRICES

Block Velour, each	$ 9.00
Verona, each	10.00
Imitation Leather, each	11.00
Crushed Plush, each	13.50



Stationary Davenport.

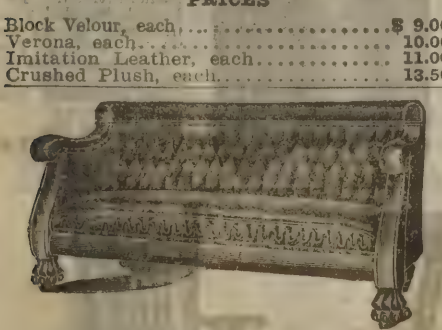
No. 1-A-97. This high grade stationary davenport is made with an extra massive frame and finely figured oak finished in a rich shade of golden. We can also furnish a few with birch mahogany frames. The back and sides are of uniform height, insuring pleasing outlines and symmetrical design. Colonial pilasters, large hand carved claw feet. The seat is of the best spring construction with a heavy spring edge and button front. Filling consists of tow, with an elastic cotton felt top. It is nicely polished all over. Length 6 ft., height 33 in., depth front to back 32 in. Weight, 185 lbs.
Price, upholstered in genuine leather..$29.95

Adjustable Divan.

No. 1-A-105. Colonial design, adjustable divan. Frame is made of extra heavy quarter sawed oak, hand rubbed and polished, finished in a rich shade of golden. The back, sides, seat and front have extra heavy filling of hair and tow. The seat has a fine spring edge and full spring construction throughout. Deeply carved. The construction and material used throughout are of the highest character. Length when opened is 7 ft. 1 in.; when closed, 4 ft. 9 in. It is 44 in. high and 24 in. deep from front to back. Weight, 115 lbs.

PRICES

Velour, each	$13.95
Verona, each	14.50
Boston Leather, each	17.00
Brocaded Silk Plush, each	21.00



Stationary Davenport.

No. 1-A-99. Handsome and massive Colonial design stationary davenport. Frame can be furnished in either selected solid quartered oak or choicest fine grain birch mahogany. Entire frame construction is hand rubbed and polished to a piano luster. Large hand carved claw feet. Full spring seat, upholstered with genuine leather over a guaranteed spring construction. Filling consists of tow, with an elastic cotton top, ruffled front and diamond tufted back. The simplicity of construction prevents an adequate conception of the skilled labor and time required to turn out such a magnificent piece of furniture. Especially recommended where a very fine piece of parlor or library furniture is desired. Excellent for hotel or club house use. Soft and luxurious. Weight, 210 lbs.
Price, upholstered in genuine leather..$52.65

Stationary Davenport.

No. 1-A-98. This high grade stationary davenport is 64 in. long, 34 in. high and 32 in. deep. The framework is made of very heavy selected northern birch, highly polished in a rich mahogany luster. The continuous frame construction is unquestionably one of the prettiest effects ever embodied in a davenport, and we have every reason to believe that this design will prove a popular seller. It has a ruffled front seat with a tow and elastic cotton felt filling. The spring construction consists of finest oil tempered, highly carbonized high tension springs. Upholstery is secured with double prong buttons which cannot push through or pull out. The sides are plain upholstered. Covering is genuine leather. Weight, 190 lbs.
Price, each.....$37.75

Stationary Davenport.

No. 1-A-100. This high grade davenport can be furnished with either a solid oak golden finish or solid birch mahogany frame. The lot is limited and quick action is advised if you wish to secure one of these bargains. The entire framework is hand rubbed and polished to a mirrorlike luster. Note the finely carved Colonial columns, which are of octagonal design, surmounted with hand carved heads, shaped arms, back and feet. Full spring seat of finest construction. Ruffled front and hand tufted back. Non-pull-out prong buttons fastened through finest elastic cotton felt filling to inside of heavy canvas duck. Length 6 ft. 8 in., height 35 in., depth 32 in., weight 240 lbs. This is a luxurious piece of parlor or library furniture and must not be compared with the ordinary cheaply constructed class of furniture thrown promiscuously upon the market by unscrupulous dealers. We guarantee it to be one of the greatest values ever offered at the price.
Price, oak or mahogany finish, upholstered with genuine leather.....$54.00

Eleven Extra Good Bargains in Chicago Stock.

No. 1-A-387. This Kitchen Cabinet is made throughout of the finest satin walnut and has a rubbed finish. The top which is covered with nickel non-corroding zinc, measures 41x26 inches. Canopy is 36 inches high and 12 inches deep (front to back.) Base contains one chopping or bread board two drawers, 15½ inches wide and 18 inches deep inside and an extra large double door compartment below for storing utensils of all kinds. Canopy has a large flour sifter and bin, also a double glass door cupboard with one horizontal shelf. The workmanship throughout is the very finest. All drawers, ends and back are handsomely paneled and fitted with wood knobs. Weight, 190 lbs.

Price, each.....**$11.00**

No. 1-A-382. This Kitchen Cabinet is finely constructed of satin walnut, with a dull rubbed finish. The top of base is made of the finest seasoned bass wood and measures 41 inches long and 26 inches deep, (front to back.) It contains two large drawers and two roll front flour bins, which slide on metal wheels to prevent friction. Canopy top is 45 inches high and 12½ inches deeep, (front to back.) It contains two good size drawers for spices and two double depth drawers for miscellaneous articles. Note the double ornamented glass door cupboard with one horizontal shelf. This is an excellent piece of kitchen furniture. It is roomy, spacious, well constructed and is an article that will surprise you with its general excellence and quality. The workmanship on it is of the very highest character. Weight, 175 lbs. Price, each..**$10.50**

No. 1-A-446. This Kitchen Cabinet is made of choice grain white maple highly finished. The base is 44 inches long, 26 inches wide and 32 inches high. Top is covered with zinc and contains three good sized drawers, a large tilting flour bin and two spacious compartments below for kitchen utensils. The base stands high off the floor, allowing plenty of room for cleaning underneath without moving it. This is a sanitary feature that is highly desirable. Base contains full width bread or chopping board. The canopy top contains four large open compartments, has four large deep drawers and one tilting knead bin with ornamented front. The top is 11 inches wide, front to back, and 39 inches high. The extreme height of this kitchen cabinet is 6 feet. The workmanship throughout is remarkably good. All drawers are made with heavy slides and bottoms, and are smoothly fitted inside and out. They slide easily without sticking or binding. All front drawers, bins and doors are extended, this making them absolutely dust proof. Weight, 200 lbs.

Price, each.....**$10.75**

No. 1-A-388. This extra large size Chiffonier is 34 inches long and extra wide. It has a beveled plate mirror 20 inches in width and 12 inches in height. It is made of American quarter sawed oak, finished in a rich shade of golden. It is equipped with good, strong brass handles. Upper drawers have a full swell front, top being shaped to harmonize with it. All drawers are fitted with individual locks. Note the attractive, clean cut carvings which ornament the top of standards, the baseboard, back rail, second drawer and top of mirror frame. Has an excellent finish and is a most attractive piece of furniture. Grain of wood is brought out nicely. Our price does not represent the actual cost of the material and labor involved in making this chiffonier. Weight, 115 lbs.

Price, each **$5.50**

No. 1-A-445. This extra nice Dresser is 40 inches long and 19 inches wide and well proportioned throughout. It is made of selected white oak, finished in a rich shade of golden. The entire front is made of quarter sawed oak finished in a golden gloss finish. The large French beveled plate mirror is 24 inches wide and 20 inches high. It is richly ornamented with deep clean cut hand carved ornamentations. It has a shaped top with a moulded edge. All partitions between drawers have a heavy moulding. The base contains two upper drawers with serpentine fronts. This is a well made dresser that will please anyone who wishes a substantial and attractive article. Weight, 40 lbs. Price, each.....**$8.65**

No. 1-A-1013. This high grade Chiffonier is made of quarter sawed oak finished golden, also genuine mahogany. Base measures 33x20 inches. Contains five large drawers. Has double swell serpentined front. Built to last a lifetime. Profusely adorned with rich hand carved ornamentations. The French beveled plate mirror measures 20x16 inches. This is a chiffonier that will harmonize with the most expensive bedroom furniture.

Weight, 130 lbs.

Price **$17.95**

No. 1-A-383. Child's Rocker; made of quartered oak, finished in rich golden gloss. It is 32 inches high and 15 inches wide. Seat is 13 inches deep (front to back) and is made of extra quality, hand woven cane. One of the prettiest child's rockers on the market. Weight, 12 lbs.

Price, each **$0.55**

No. 1-A-384. This attractive Child's Rocker is made throughout of solid oak, finished in rich golden gloss. It is 32 inches high and 14 inches wide. Note the extra quality, hand woven cane seat, which is 12 inches deep (front to back). Has 3 ply back panel, artistically designed, and the legs of this rocker are turned and neatly shaped. Weight, 12 lbs.

Price, each **$0.65**

No. 1-A-387. This attractive cradle is made of selected hardwood, finished a rich golden gloss. The head end is 39 inches high and the foot is 33 inches high. The side rails are 12½ inches high, the length being 36 inches inside. The inside width being 18 inches. The head, foot and sides have attractively turned spindles. These cradles are shipped K. D. and weigh 25 lbs. They are designed to be used with 3 ft. slats and a small mattress or bedding on top of the slats. Regular price $1.25, our price.....**60 cts.**

Order early as the stock is very limited.

No. 1-A-386. Solid oak Parlor Table, made of figured wood with quarter sawed oak top, 28 inches square. The legs are 2½ inches in diameter, made of solid oak stock. Has a lower shelf 17½ inches square. Weight 30 lbs.

Price, each.....**$3.15**

No. 1-A-386½. Same as above, made of selected birch, mahogany finish with glass ball and brass claw feet.

Price.....**$3.75**

No. 1-A-385. This full size, hardwood Rocker is strongly constructed throughout, having a heavy saddle seat, 18 in. wide and 17 in. deep, (front to back.) Height of back from seat is 26 in. Has shaped arms, spindles, front legs and back posts. Finished in a rich golden gloss. This is a substantial and comfortable rocker at less than actual cost of manufacture. Weight, 16 lbs.

Price, each.....**$1.25**

JOB LOTS OF FURNITURE, ODDS AND ENDS

No. 1-A-292. This desk is made of figured white oak, finished golden or weathered, as preferred. It has a strongly reinforced base which prevents shaking. It is 32 in. in length and 23 in. deep (front to back). Stands 63 inches high. It has an assumptiously appointed desk compartment, containing two book stalls, 12 pigeon holes, one small drawer and 2 stationery or envelope racks. The roll curtain is overlapped and absolutely dust proof. Coped panels. Book compartments have double glass doors of attractive design containing one horizontal shelf. Automatic lock. Weight, 125 lbs.

Price, each **$9.60**

No. 1-A-292½. Same as above without book case compartment. Weight, 100 lbs. 44 in. high.

Price **$6.00**

Give second choice when ordering.

No. 1-A-296. This roll top desk is made of the highest quality white oak finished golden. It measures 42 inches in length and 30 deep (front to back) 45 inches high. Weight is 140 lbs. It is an ideal sanitary dust proof desk. Construction throughout is absolutely first class. Interior contains 6 pigeon holes, 2 envelope compartments, 2 stationery compartments, pencil and blotter racks and 2 drawers for miscellaneous articles. Cross laid veneer paneling; Coped at edges.

Price, each **$8.00**

No. 1-A-296½. Same as above weathered oak finish **$8.00**

Design A

Design B

Design C

Design D

BRASS CUSPIDORS

No. 1-A-370. These high grade cuspidors are made of heavy spun sheet brass. They are lacquered with the finest quality composition and positively will not tarnish or rust. These cuspidors are of the highest grade and any of the different sizes would ordinarily sell for more than double our prices. Limited stock.

Design "A"—6 in. high, 7½ in. diam. Price, each. **$0.95**

" "B"—5¾ in. " 8½ in. " " " .. **1.00**

" "C"—4½ in. " 7½ in. " " " .. **1.20**

(Made in 2 pieces)

Design "D"—12½ in high, 9½ in. diam. Price, each. **$2.85**

No. 1-A-366. This sideboard is made of solid oak, finished golden. Top is 42 in. in length and 21 in. in depth, (front to back.) The height of back from floor is 79 in. Note the two upper projecting drawers are of full dovetailed construction and one is richly lined for silverware. Note the full width drawer and double door linen compartment. All partitions between drawers, cupboards, etc., have moulded edge. The French beveled plate mirror is 12 in. high and 20 in. wide. Richly adorned with deep, clear cut hand, carved ornamentations. Weight, 180 lbs.

Price, each **$9.40**

No. 1-A-293. This dresser is made of figured oak finished golden. Has a shaped top, carved standards, ornamented mirror frame. The finish is golden gloss and of a character seldom or never found in dressers offered at this low price. The mirror is of extra quality French beveled plate and measures 28 in. high and 16 in. wide. The dove-tailed drawers are smoothly finished inside and out, are easily running and dust proof. This is a small lot, and we have just 30 of them in stock. Order at once if you wish to secure one of these bargains. Weight, 135 lbs.

Price, each **$9.35**

No. 1-A-367. This dresser is 40 in. in length and 20 in. deep (front to back). Has French beveled plate mirror, 24 in. high and 16 in. wide. Richly adorned with clear cut, hand carved ornamentations. All drawers are full dove-tailed construction and are smoothly finished inside and outside, are carefully fitted to slide readily. All brass trimmings are extra heavy. Note the full serpentine drawer fronts and hand carved claw feet, made of quarter sawed oak, finished golden. Weight, 125 lbs.

Price, each **$10.50**

No. 1-A-368. This dresser is made of selected, figured plain oak, finished in a rich golden gloss. The two top drawers are full serpentine and have quarter sawed oak fronts. All drawers are smoothly finished, inside and out and are carefully fitted, so as to work smoothly without binding or sticking. The top is 40 in. long and 21 in. deep, front to back. Mirror is 16 in. wide and 24 in. high. The carving on this dresser is strictly in keeping with its high grade workmanship. Weight, 120 lbs.

Price, each **$9.65**

No. 1-A-294. We have 35 solid oak dressers like illustration shown herewith in stock, which we offer at a big reduction below regular prices. These are manufacturers' samples and the quotation thereon does not cover its actual value in workmanship or material. It is richly finished in golden gloss and embodies workmanship of the highest character throughout. The mirror is 24 in. high and 18 in. wide. Weight, 135 lbs.

Price, each **$9.15**

No. 1-A-369. The wood used in its construction is of the finest quality, quarter sawed oak, finished in a rich shade of golden. Has an extra quality French beveled plate mirror, 24 in. wide and 30 in. high. Top is 36 in. wide and 19 in., front to back. Has full swell front drawer, with top and rim shaped so as to correspond. Note the half width shelf below. This article is hand rubbed and polished all over. This is an exceptional value at even double our price. Weight, 100 lbs.

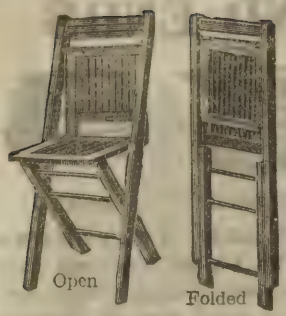
Price each **$15.00**

Nothing finer made.

No. 1-A-295. This dressing table is made of quarter sawed oak, polished golden. Is an exact reproduction of the Louis XVI period. Has extra quality French bevel plate mirror measuring 26x22 in. Top is 34 in. in length and 19 in. wide. Weight, 100 lbs. Our price saves you 66⅔% as this table was made to sell at $45.

Price, each **$15.00**

Seating and Metal Furniture



No. 1-A-469. This is an Ideal Folding Chair. The design is perfect in every detail. It has the following special features:

1. Impervious to accidental breakage in use or transit.
2. Stays closed when folded.
3. As readily handled as a board.
4. Exceptionally comfortable.
5. Neat, clean and attractive.
6. Can be piled to any height.
7. Made of selected and thoroughly seasoned hard maple throughout.
8. Readily stripped into sections.

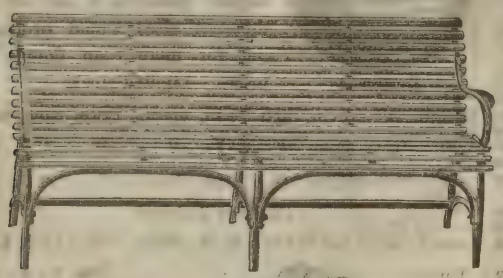
Hinges are made of malleable iron. Measurement when folded, 40 in. long, 16 in. wide and ½ in. thick. Weight, 10 lbs each. Shipped from Chicago warehouse stock.

Price, per dozen ..... $ 6.25
Price, per hundred 50.00

No. 1-A-461. This is a very practical Folding Chair, made especially for the roughest outdoor use. Nearly all the amusement parks and boats in this city are using these chairs to the exclusion of all others. The seat rests on a large steel bolt, which connects the two sides and prevents breaking or spreading. We can positively state that these chairs are perfectly seasoned and finely finished. Made of selected maple. They are easily opened by anyone, and are "fool-proof." Weight, 10 lbs.

Shipped from Chicago.

Price, per dozen ..... $ 6.00
Price, per hundred 48.00



No. 1-A-474. This is the finest Lawn and Porch Settee manufactured. Absolutely all hardwood. The skeleton is selected rock elm. The slats are somewhat wider and are slightly differently shaped from those ordinarily used, making a much more comfortable and durable settee. The slats are placed closer together than illustrated. Iron braces on the back leg prevent the sag and end motion so common in other patterns. Painted either bright vermilion or dark green, as preferred. Tastefully striped and carefully varnished.

3 ft. long, 4 legs, weight, 20 lbs. Price $2.80
4 ft. long, 4 legs, weight, 25 lbs. Price 3.10
5 ft. long, 6 legs, weight, 30 lbs. Price 3.35
6 ft. long, 6 legs, weight, 35 lbs. Price 3.60

Three and four legged settees can be furnished with rockers for 30 cents additional. These are commonly known as double rockers. The bright, attractive colors of these articles add materially to the appearance of the home, porch or lawn, and prove exceedingly convenient and useful as well. All these are wrapped one in a bundle and shipped K. D. Shipped F. O. B. Central Michigan.

No. 1-A-468. This is a folding settee of the highest grade, all material used, being hard wood. The slats are finished natural. The base painted red or green as preferred. Put together with screws and rivets only. No nails. Weight, 27 lbs. each. Although of the very highest quality our price is no more than the much inferior grades usually sell for. 6 ft. long.

Price, each ..... $ 1.35
Price, per dozen 16.00

No. 1-A-468½. Same as above, but 3½ ft. long and without the center legs. Weight, 16 lbs.

Price, each ..... $ 0.90
Price, per dozen 10.50

We can also furnish same 4½ ft. long. Weight, 21 lbs.

Price, each ..... $ 1.20
Price, per dozen 14.00

No. 1-A-467. The lightest and most compact Folding Chair on the market. While light in weight, it is amply strong and well made, and will stand all rough usage. Its exceedingly low price and its advantages will appeal to camping parties, owners of yachts, launches and many others. The seat cannot sag as the ordinary canvas seats do. Can be used to stand upon when wished. Measures 13x13½. Packed 12 in a case, weight, 65 lbs.

Price, per dozen $3.75

No. 1-A-467½. Same as above without back. Weight, 45 lbs. per dozen.

Price, per dozen $2.65

Opera Chairs

A B

We are headquarters for Opera Chairs, and have at all times, large stocks and we are able to supply any quantity desired of any standard size, finish or arrangement. Be sure and write us for prices before fitting out your 5 cent theatre, opera house, hall, school, church or lodge. Give us specific information, as to the number, size, general style and arrangement and we will quote you prices which will save you from 10 to 25 per cent. Cut A shows one of our popular cast iron frame chairs. Cut B shows one of our Bessemer steel frames.

Metal Chairs and Tables

Shipped from Chicago stock.

No. 1-A-470. These articles are of the highest quality, each and every one of them, the chairs being of the celebrated "Heart Design" (patented). This type combines beauty of design with a strength of construction which could not otherwise be obtained. At the same time it gives uniform elasticity to the chair back, making it comfortable and without the unpleasant "digging in" feature of other metal chair backs. This wire furniture was made by a firm who has experience and reputation in finishing and plating insuring the highest grade of work. We can positively state that these chairs are as nearly unbreakable as anything can be made and that the finish will wear indefinitely. Not only are they made right and designed right, but they will stay so. There is a two inch surface of each leg on the floor and they will not scratch linoleum, wax or polished floors, etc. Special attention is called to the metal stretcher of one continuous length passing through each leg, therefore cannot pull out, as the ordinary crossed type does.

All chair seats and table tops can be furnished in highly polished selected quarter sawed golden oak or seasoned selected northern birch finished mahogany.

All of the metal frames are finished in the standard finish oxidized copper sometimes known as Japanese copper. All chairs can be shipped K. D. if so specified. They are easily set up being joined together with heavy bolts. Weight of chair is 10 lbs.

"Heart Design" Chairs, each $1.50
Childrens Chairs, each 1.30
Stools, 24 in. high, 9½ in. seat 1.20
Table, illustrated 30 in. high, 24 in. in diam., or 24 in. square 3.25
Same, with 30 in. top round or square 3.75
With oblong top, 30x42 in. 4.50
30x48 in. top 5.00
Childs size table 18 in. round top 1.50

Piano Stools and Benches, Plate Racks, Tabourettes, Hammocks, Invalid Chairs

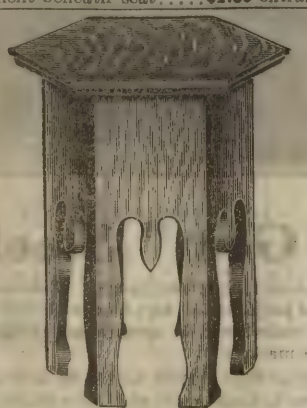
No. 1-A-362. Piano Stool. Highly polished seat, 15 in. in diameter. The construction the best, and the workmanship being perfect it will harmonize with the most expensive piano. Weight, 35 lbs.
Price, each, Mahogany finish.....**$2.20**
Price, each, Golden Oak finish.....**$2.55**

No. 1-A-329. Piano Stool, made of birch, finished in a rich shade of mahogany. Polished brass claw feet, fitted with large glass balls. Adjustable revolving seat, 15 in. in diameter. Weight, 35 lbs.
Price, each.....**$2.35**
No. 1-A-329½. Same as above, but in polished oak, solid walnut or mahogany.
Price, each.....**$4.35**

No. 1-A-145. This Piano Stool is made of quarter sawed oak, finished golden, hand rubbed and polished to a piano luster. A new and up-to-date design that will harmonize with almost any piano that corresponds in finish. Legs are slightly tapered, adding greatly to the neatness and clean cut effect of the general design.
Weight, 35 lbs.
Price, each.....**$2.40**

No. 1-A-144. Piano Bench, best workmanship and construction throughout. Length 36 in., width 15 in., height from floor 21 in. Made of extra heavy stock. We can furnish either selected quarter sawed oak finished golden, or fine grained birch, mahogany finish. Hand rubbed and polished all over. Weight, 50 lbs. Price.....**$5.10**

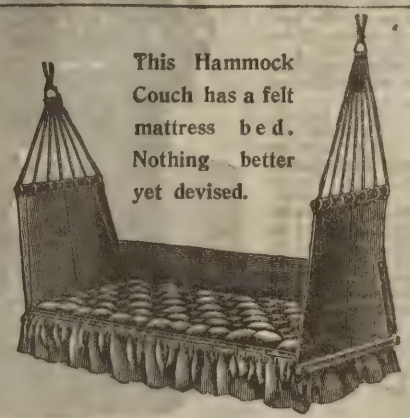
No. 1-A-330. This Piano Bench is made of selected birch, finely finished in a rich shade of mahogany. It is a faithful production of the Louis XIII period. Height 20½ in. length 38 in., width 16 in. Weight, 80 lbs. Price.....**$10.00**
Quarter sawed oak.....**11.00**
Solid walnut or mahogany....**13.50**
With hinge cover, music compartment beneath seat.....**$1.50** extra.



No. 1-A-271. This Tabourette is 18 in. high and 13 in. in diameter across top. Is made of selected oak finished golden or weathered as desired. Neat and attractive. Wt., 6 lbs. Price.....**$0.95**

We have a new stock of Invalid Rolling Chairs, and can supply you with some especially fine bargains at greatly reduced prices. No matter what your requirements are in this line, get our figures and let us show you how we can save you money. Write for catalog today.

No. 1-A-270. This artistic Plate Rack has a lattice back and lower grooved shelf for dishes. The upper shelf is especially designed for cups, vases and similar pieces. The bottom is fitted with hooks for cups. Is made of solid selected oak, finely finished in a rich dark weathered oak. We also have a few in golden oak finish. Length 38 in., height 18 in., depth from front to back 4 in. Weight, 15 lbs.
Price.....**$2.50**



No. 1-A-349. This hammock has a sanitary spring bottom which is soft and yielding, giving the maximum of comfort and ease of motion. Has adjustable suspension rings. Uprights are made of 30 ounce army duck strung from 14 points with best quality sash cord. Covering is best quality denim. Ruffled valance at both sides. Wind shields of the same material at back. Tan or rich green colors. This hammock will sustain a weight of 800 lbs. Length 6 ft. 4 in., width 31 in., depth 12 in. Weight, 100 lbs.
Price.....**$9.00**

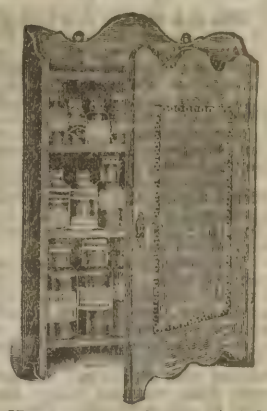
No. 1-A-272. Prices quoted below are for American Flags with full number of stars made of guaranteed fast color cotton bunting. They are brand new and perfect in every respect. Suitable for Patriotic Assemblies, Parades, Parties, Fetes, as well as for innumerable decorating purposes. We can furnish the following sizes at prices designated.

Length.	Width	Price per doz.
4 ft.	2½ ft.	$ 3.15
5 "	3 "	5.00
6 "	4 "	6.85
8 "	5 "	10.35
12 "	8 "	24.00
15 "	10 "	40.00

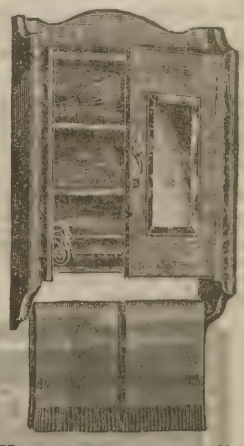
10x15 ft. flags have stars sewed on both sides. Shipped direct from point of purchase in Pennsylvania.

Architects and Builders Special Attention.

We recently secured a large quantity of window shades in various colors and sizes in unbroken packages containing one dozen each. If you are in the market for shades of any kind, write at once for full information and list of our prices. We can save you fully 25 per cent on any you select.



No. 1-A-260. Medicine Cabinet made of solid oak, finished golden. Also a few in weathered oak. Height 22½ in., width 14½ in., depth 5 in., front to back. Has three shelves 13½ in. long. Weight, 8 lbs. Price.....**$0.95**
No. 1-A-260½. Same as above with American Plate mirror, size 12x8 in.....**$1.20**



No. 1-A-261. Toilet and Shaving Cabinet. Needed in every bathroom. Height, 22½ in., width 16 in., three shelves for brush, comb, etc. French beveled plate mirror 10 in. high and 8 in. wide. Made of solid oak either golden or weathered oak gloss finish. Weight, 18 lbs.
Price.....**$2.50**

No. 1-A-1011. This Tabourette is 16 in. high and 11 in. wide. It is of solid oak, finished golden or weathered. Weight, 6 lbs.
Price.....**$0.30**

$16.65 Buys This Steel Range

The Celebrated Diadem

No. 1-A-1100. This high-grade steel range is made of the finest quality of Wellsville polished steel throughout. It has all the desirable features to be found in the better class of ranges. The body is lined throughout with asbestos, and the bottom oven is based with angle iron, fastened to bottom flue strips, effectually preventing buckling. The drop oven door is strongly hinged. The stove is carefuly and firmly put together, all riveting being firm and tight. All points subject to special heat are doubly re-enforced.

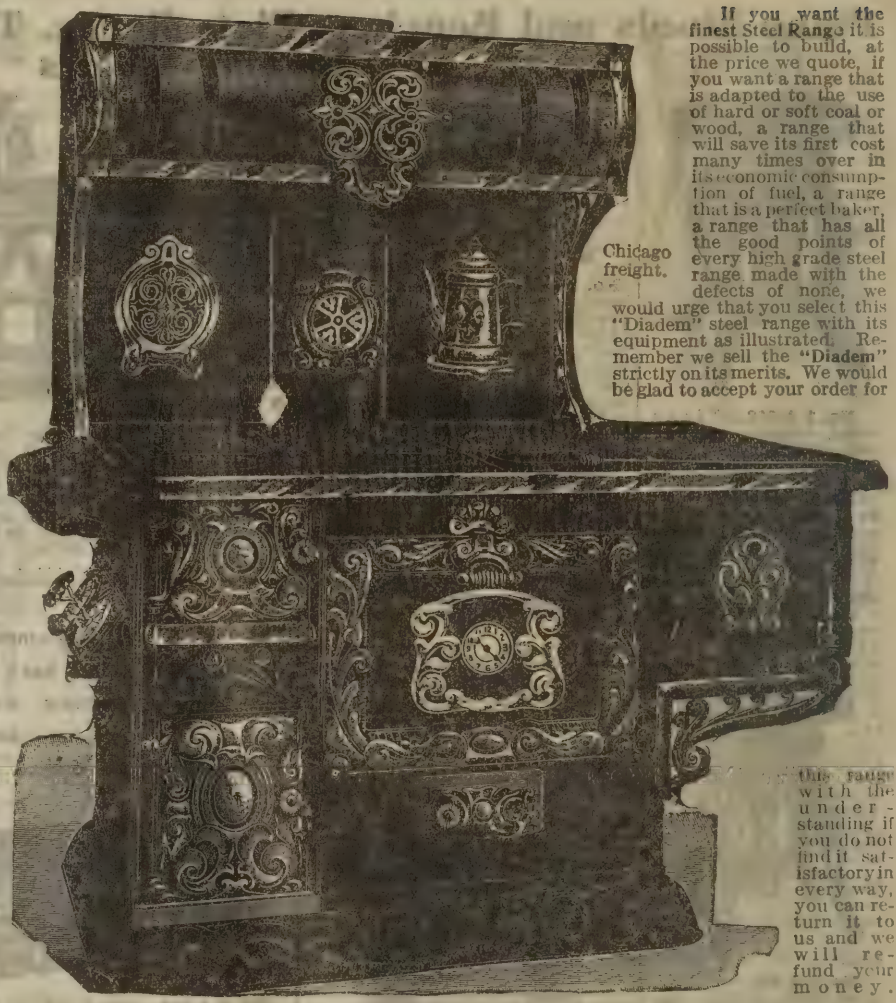
This stove stands on a heavy base, is beautifully nickel trimmed as follows: Draft Dampers, T Shelves, Oven and Fire Box Doors, Reservoir, Front Rail of Top, all Rails to High Shelf or High Closet, all Handles and Flue Door.

This range is an excellent baker, and an economical user of fuel. The weights vary from 320 to 525 pounds, depending upon the size and the extras. We guarantee these ranges, equal in every respect to any ranges sold for much higher prices. The illustration shows this stove with High Closet and Steel Reservoir. Also with Oven Thermometer. They can also be furnished with a back rail in place of the high closet, or with high warming shelf; likewise, with or without steel or cast reservoir. The top is 31 inches from the floor. The high closet is 24 inches higher. All these stoves require No. 7 pipe.

The first figure in the number shows the size of the covers. This second figure shows the length of the fire pot. These ranges will burn hard coal, soft coal, or wood, being fitted with Duplex Grates of the best type. The main top, which contains 6 covers, (1 reducing cover) is made of the highest grade iron, and will stand the heat better than any other material. All parts of the top are carefully fitted with sufficient allowance for expansion when heated.

No.	Size of Lids.	Size of Oven.	Size of Top.	Price Square (without reservoir or high closet) with back panel.
8-16	8 in.	16x20x13½	46x28	$16.65
8-18	8 in.	18x20x13½	48x28	17.35
8-20	8 in.	20x20x13½	50x28	18.65
9-18	9 in.	18x20x13½	48x28	17.50
9-20	9 in.	20x20x13½	50x28	18.80

If an enameled steel reservoir is wanted on any of the above stoves, add $3.00. If a cast reservoir is wanted, add $3.65. If a high shelf is wanted, add $2.35. If a high closet is wanted, add $3.65. If the oven thermometer is wanted, add $1.35. If a water front is wanted, add $2.00. It will be a simple matter for anyone to determine the cost of any size range, equipped as desired.



Chicago freight.

If you want the finest Steel Range it is possible to build, at the price we quote, if you want a range that is adapted to the use of hard or soft coal or wood, a range that will save its first cost many times over in its economic consumption of fuel, a range that is a perfect baker, a range that has all the good points of every high grade steel range made with the defects of none, we would urge that you select this "Diadem" steel range with its equipment as illustrated. Remember we sell the "Diadem" strictly on its merits. We would be glad to accept your order for this range with the understanding if you do not find it satisfactory in every way, you can return it to us and we will refund your money.

"Empire Gem" Steel Range

This is an economical cooker, and a well made steel range. While not so good as our higher priced steel ranges, it is guaranteed and sold subject to 30 days trial, with the privilege of returning at our expense, if it is not more than all we claim for it, in appearance, quality and economy, and equal to any medium grade steel range on the market.

These stoves were meant to sell at from $20.00 to $35.00 and are in no sense to the word, cheaply gotten up articles. The stove is handsomely nickeled with the best quality of nickel plating on the oven, fire and ash doors. Also on the flue door, reservoir, T shelves, pipe dampers, etc. This range is fitted with duplex grates, and will burn wood, hard coal or soft coal, as desired. They were built by one of the better factories and of the finest quality material throughout. The weight of this range varies from 285 to 450 pounds, depending on the size and equipment. Roomy fire box, well lined top of the best quality iron, hinged balanced oven door, draft dampers, properly arranged for the maximum of heat with minimum of fuel consumption.

This range will meet all ordinary requirements, and will stand the test of time and service. This illustration shows it with porcelain lined steel reservoir, and with roll front high closet. The following prices are for these stoves without reservoir and without the high closet, but with a back rail. *Steel reservoir can be furnished for $3.00 additional. High shelf for $2.65 additional. High closet for $3.65 additional, and water front for $2.00 additional.* The top of stove is 29 inches from the floor. The fire box will burn wood up to 21 inches long. The first figure in the number shows the size of the covers. The second figures show the length of the firebox for coal.

THE EMPIRE GEM

Size No.	Size of Oven.	Size of Top.	Price, Square with Back Rail and End Shelf.
8-16	16x20x13	44x28	$12.50
8-18	18x20x13	46x28	14.00
8-20	20x20x13	49x28	15.35
9-18	18x20x13	46x28	14.25
9-20	20x20x13	48x28	15.60

This stove can be furnished with oven thermometer for $1.35 additional.
All stoves without reservoir have extension shelf at the right hand side.

All Stoves on this page are shipped from Chicago Warehouse.

Greatest Steel Range Bargain We Have Ever Catalogued

Prices $22.00 to $30.90 Exactly Like Illustration

No. 1-A-999. This beautiful steel range is of the very highest grade manufactured. Made throughout of the highest grade Wellsville blue polished steel, perfectly lined with an extra heavy asbestos lining. The illustration does not do justice to this range, which was recently built, and surpasses anything else ever manufactured. The body has no seams or joints to loosen, or permit the escape of heat, and will not turn white, crack, chip or peel in the action from the fire. Requires no blacking. The top has 6 covers, one being graduated for any size utensils. No possibility of trouble from any cause.

The top over fire box, with cover, lifts and fits in three positions, permitting toasting, broiling and attention to the fire. The fire box is extra long, being deeper than the body of the stove itself, and permits large sized wood to be burned when desired.

The flue back is of cast iron, and cannot burn or rust out. The coal feed pouch at the end permits feeding the fire without disturbing the articles being cooked on top. Long draft or poker door, with two check registers, insure a complete and perfect fire. The oven is made of best heavy steel, and no oven can bake more evenly or quickly. The oven is ventilated, and the top is protected with a cast plate to distribute the heat evenly throughout. Accurately balanced drop oven door with best long handle fitted with oven thermometer, a great convenience and fuel saver. Counter balanced warming closet, roomy smoke pipe, tea shelves large ash pan which will never have to be dumped more than once a day lever handled duplex grate. Will burn hard coal, soft coal, wood, coke or corn cobs. The best grate made. Heavy-lined fire box, 26 in. long, perfect damper construction, which permits broiling, baking and roasting perfectly. The reservoir is fitted with a porcelain lining, and will keep the water boiling hot if desired. The body is made of the highest grade 22 gauge steel, oven of 18 gauge American Bessemer steel. Stoves without reservoirs, are equipped with large nickel trimmed shelf at right.

Range No.	Size of Lids, Inches.	Size of Oven, Inches.	Size of Main Top Including Reservoir Dimensions, Inches.	Height Including High Closet Inches.	Size of Pipe Required, Inches.	Capacity of Reservoir, Qts.	Shipping Weight with Reservoir and High Closet, Pounds.	Price, Square with Back Panel (without Reservoir or High Closet.)	Price, Square with High Shelf (without Reservoir).	Price, Square with High Closet.	Price, Reservoir and Back Panel.	Price, Reservoir and High Shelf.	Price, Reservoir and High Closet(as Illus.)
7-16	7	16x21x14	45x28½	58	7	13½	520	$22.00	$24.45	$25.50	$25.00	$27.50	$28.50
8-16	8	16x21x14	45x28½	58	7	13½	520	22.15	24.60	25.65	25.15	27.65	28.65
8-18	8	18x21x14	47x28½	58	7	17	535	23.00	25.50	26.50	26.75	29.25	30.25
8-18	9	18x21x14	47x28½	58	7	17	535	23.15	25.65	26.65	26.90	29.40	30.40
8-20	9	20x21x14	49x28½	58	7	22	555	23.75	26.25	27.25	27.25	29.75	30.75
9-20	9	20x21x14	49x28½	58	7	22	555	23.90	26.40	27.40	27.40	29.90	30.90

If you wish a Water Front for any of above sizes add: For Water Front, Extra.....$2.00

"SUPERIOR GEM"

$15.65 to $24.40 Is Our Range of Prices on This High Grade Cast Iron Base Steel Range

No. 20-A-60. This high grade cast iron steel body range was made by one of the most prominent Illinois manufacturers. It is a design that commands a high price when sold in the regular way. Description of our Empire Gem Steel Range on the bottom of preceding page, describes the body of this range very thoroughly. It is an economical cooker and is constructed of first-class material by high class workmen. It is designed to meet all ordinary requirements and will stand exceptionally hard service. In ordering this range be sure and specify by number the size you desire. Note that the first figure of the stove number shows size of the covers, and the second, or last two figures, show length of oven in inches.

No.	Size of Oven. Inches.	Price, Square with Back Guard and End Shelf.	Price, Square with High Shelf and End Shelf.	Price, Square with High Closet and End Shelf.	Price, Reservoir with Back Guard.	Price, Reservoir with High Shelf.	Price, Reservoir with High Closet.
8-16	16x20x13¼	$15.65	$18.00	$19.30	$18.65	$21.00	$22.30
8-18	18x20x13¼	16.25	18.60	19.90	19.25	21.60	22.90
9-18	18x20x13¼	16.35	18.70	20.00	19.35	21.70	23.00
8-20	20x20x13¼	16.65	20.00	21.30	20.65	23.00	24.30
9-20	20x20x13¼	17.75	20.10	21.40	20.75	23.10	24.40

We can furnish a cast iron reservoir as illustrated above instead of porcelain lined steel at 75 cents additional. Water front to fit any of these ranges $2.00. Thermometer $1.35 additional. Weight of this range varies from 350 to 490 lbs., depending on size and style. These ranges are shipped direct from warehouse in Chicago.

Cast Iron Ranges and Cook Stoves

No. 1-A-429. The "Invader" range is one we recommend very highly. This high grade 6-hole, cast iron range will be found most convenient, attractive and economical. It is of the best construction and workmanship throughout. The top covers and centers are strong and braced in the best way to withstand heat without warping or breaking. One lid is nested for different sized utensils.

The Oven is extra large and serviceable throughout. Each oven plate is built to prevent cracking.

The Firebox is so constructed that it will give intense heat on top without a big fire. Heavily lined. Duplex grate is of the best patented construction and will burn either coal or wood. One half turn of the shaker quickly removes ashes and clinkers without effort.

The Oven Door can be opened without stooping, being fitted with a kicker contrivance which opens it automatically. It is equipped with a high grade thermometer and assures perfect, quick and economical baking.

The Pouch Feed Door permits broiling, toasting or filling fire box without removing covers. Large ash pan under sliding hearth top.

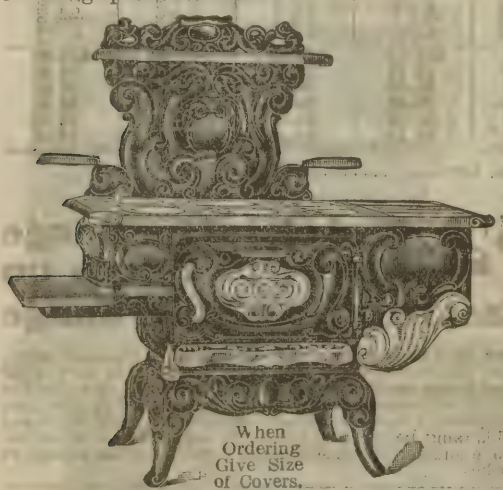
The Flue Construction is such as to assure oven being heated at the bottom as well as at the sides. No heat is wasted.

High Warming Closet with balanced roll front is of a proper height and roomy. The reservoir has removable double covers and porcelain lined tank. Capacity, 17 quarts. Takes 7 in. pipe.

The Base permits perfect cleanliness. Height of top 30 in. Height of warming closet from stove top 27 in. Shipping weight from 350 to 485 lbs., depending on size and equipment. Oven shelf, oven door, pipe damper, shaker, lifter, tea-shelves and warming closet are handsomely trimmed with the best silver nickel as illustrated.

Our Number	Range No.	Size of Lids, Inches.	Size of Oven, Inches.	Size of Top with Reservoir Inches	Square with Back Rail and End Shelf.	Square with High Shelf and End Shelf.	Square with High Closet and End Shelf.	Reservoir with Back Rail.	Reservoir and High Shelf.	Reservoir and High Closet.	Size Fire Box for Coal. Inches.	Length Fire Box for Wood, Inches.
1-A-429	8-19	8	18x18x12	44x27	$16.45	$17.75	$18.90	$19.00	$20.35	$21.25	15x9x5¼	20
1-A-429x	8-21	8	20x20x12½	46x29	18.00	19.35	20.40	21.40	22.75	23.80	17½x9½x5½	21½
1-A-429b	9-21	9	"	"	18.15	19.50	20.55	21.55	22.90	23.95	"	"

No. 1-A-430. "Art Advance" Cast Iron Range; for wood or coal. Illustration shows wood burning model. The coal burning has the hearth dropped to about the height of the oven shelf, and has duplex grates. This is a very recent model, 6-hole range, with double grate, elaborately ornamented and complete in all particulars. Made and shaped for service and durability with the following special features:



All rods mounted on the outside. Large enameled reservoir with japanned covers. Reversible ornamented oven rack, large pull out hearth slide, arch ribbed covers and centers. Improved reservoirs damper operating on top. Tin lined oven doors. Large oval fire box. Cut top and centers, extra large flues, cemented oven top. Ventilated oven, kicker door. Elaborately and sanitary base. Large ash pan. Flush top. Nickel oven door panels with door handle attached. Nickel tower rod. Swinging, removable nickel tea shelves. Nickel plate warmer. Combination ball shape and dump grate.

No. 1-A-430. This stove can be furnished for wood only as follows:

Our No.	No. of Covers.	Size of Covers.	Size of Oven.	Price with End Shelf.	Reservoir with Side Shelf.
No. 1-A-2000.	4	8 in.	19x21x12	$12.00	$16.00
No. 1-A-2001.	4	8 or 9 in.	21x21x12	14.20	18.10
No. 1-A-2002.	4	8 or 9 in.	23x23x12	16.10	20.15
No. 1-A-2003.	6	8 or 9 in.	21x21x12	16.10	20.15
No. 1-A-2004.	6	8 or 9 in.	23x23x12	18.10	22.00

The above prices do not include the high shelf illustrated. All of these stoves can be furnished with the following special extra features: High shelf as illustrated, $3.00 extra; polished steel high closet, $5.00 extra; drop oven door, $1.00 extra; oven door thermometer, $1.35 extra.

If you wish a stove which will burn coal as well as wood (fitted with duplex grates) be sure and so specify when ordering. Price, $1.00 extra.

No. 1-A-430. "Artistic" Cook Stove. This handsome and very high grade cook stove, is shown with reservoir. Has a heavy ornamented leg base, hinged oven door with kicker. Large pouch feet. For coal and wood; duplex grates burning soft coal, hard coal or wood. Attractively nickeled knobs, front and oven door end shelf (not shown in cut) and oven shelf. This stove is very similiar to the Invader but has only four covers or lids. Weighs from 280 lbs. to 350., depending on size and extras. Will meet all requirements

No.	Size of Covers.	Size of Oven.	Price with End Shelf.	Price with Reservoir as Illustrated.
No. 1-A-2005.	7	16x16x 9	$10.00	
No. 1-A-2006.	7	18x18x10	12.00	$15.65
No. 1-A-2007.	8	18x18x10	12.00	15.75
No. 1-A-2008.	8	20x20x11	13.75	17.40
No. 1-A-2009.	9	20x20x11	13.85	17.50

Premier Base Burner
Double Acting Parlor Heater

No. 1-A-1036. This wonderful parlor heater has 30 joints less than any other heater of its type on the market. Of course, this makes it the most air tight. It can be used as either a single or double heater, and pipe can be attached to hot air hole at the back of stove to carry heat to rooms above. It has an automatic magazine cover, and ventilated magazine to prevent any explosion of gases.

The base is so constructed that the flame is spread to all parts, furnishing an even, constant heat. The iron swinging top, reflector, front rails, ash door, screw register, name plate, columns, hot air cover, and the whole base are nickel plated, all nickel being of the highest quality. All nickel parts are ventilated, thus preventing them becoming overheated or tarnishing. This also permits a free radiation of heat into the room. The construction of this stove is a distinctive feature and its striking appearance and special points make it surpass all others. Handsome mica front and sides. Front has two double mica doors. Each side has two single mica doors. The grate is of a duplex shaking type, and it, as well as the fire pot, can be removed through the doors without dismounting the stove. Absolutely unqualified guarantee. This stove can be furnished in but two sizes, either one of which will give an immense amount of heat. For extreme cold climates and large unprotected houses, we recommend the large size, as it is always best to be on the safe side when buying a heater. This stove requires but little attention, once or twice a day as the case may be. The nickel plated top has concave sides, catching the light and heat from the top of the fire pot, and this is reflected by the silver nickel plate throughout the room. This stove is of a self-feeding type, and the shape and construction are such that the extreme amount of heat is obtained by a minimum quantity of coal. Inspect it in your home for a month, as we guarantee absolute satisfaction. Don't pay 40 or 50 dollars for a stove no better than this.

No. 1-A-1036. 14 in. fire pot, shipping weight 400 lbs. Price.....$26.25
No. 1-A-2036. 16 in. fire pot, shipping weight 460 lbs. Price..... 28.75

Plutocrat Base Burner!

No. 1-A-1024. This is a very desirable and highly nickeled trimmed parlor heater. It is of the self-feeding type, has double mica doors and arches in front and at both sides. It is profusely adorned with beautifully shaped top ornaments, swinging top urn, foot rest, etc. The fire pot is constructed along scientific lines, so as to give a maximum heat radiation and long service. It is so constructed as to require little or no attention. Once or twice during the day is sufficient to keep this heater properly regulated. Has a draw center, shaking grate and automatic magazine cover. Has a revolving draft damper, heating flues and many other desirable features, such as you will find only in the highest priced heaters. It is a cheerful, cozy and finely constructed heater, and one which we fully guarantee to give perfect satisfaction. Can be supplied in the following sizes, according to diameter of fire pot which is specified, together with heights and weights:

Diameter of Fire Pot	Height	Size of Pipe Required	Weight	Price
10 in.	42 in.	5 in.	200 lbs.	$14.60
12 in.	45 in.	6 in.	210 lbs.	16.50
14 in.	47 in.	6 in.	230 lbs.	18.25
16 in.	50 in.	6 in.	240 lbs.	19.55

King Beauty Cast Range!

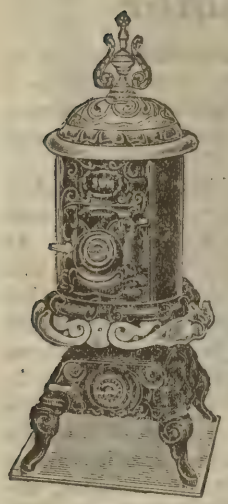
No. 1-A-2034. This up-to-date range is absolutely guaranteed a first-class article in every sense of the word. Considering quality and value it has no equal. It has a duplex grate adapted for burning anthracite or bituminous coal or wood. It has one sectional cover, and a large drop feeder door. The hearth is portable or loose as desired. Stove is easily operated and works to perfection. Has nickeled parts as follows: Name plate, oven shelf, knobs, band for edge of top, band for solid hearth or table, shaker and lifter. This stove is recommended to those wishing something of extra worth and attractiveness.

Our No.	Size of covers	Size of oven	Price square with end shelf and high closet as illustrated
1-A-2034	7 in.	16x16x11	$28.00
1-A-2035	8 in.	16x16x11	28.00
1-A-2036	8 in.	18x18x11	30.65
1-A-2037	9 in.	18x18x11	30.65
1-A-2038	8 in.	20x20x12	33.35
1-A-2039	9 in.	20x20x12	33.35

Any of these stoves can be furnished with cast reservoir for $6.00 extra. Water front $2.00 extra. If the high closet is not desired deduct $6.65 from the prices given above. Weights vary from 340 to 475 lbs. depending upon size of stove and equipment. Stoves without high closet are equipped with a back rail with two swinging tea shelves.

Oak, Cannon, Parlor and Stove Heaters

Bahama Sun Oak



No. 1-A-424. This attractive residence stove is mounted with the best charcoal cold rolled iron, which will not tarnish or change color, and is warranted not to burn red. It will burn either hard coal, soft coal or wood. The **fire pot** is heavy and deep, and can be replaced by removing three outside bolts, and with as little trouble as to put a fire back into a cook stove. The **grate** is heavy, of the draw center type, and is shaken through the revolving register. The **ash pan** is large, with sunken bottom, and ashes will not fall out when the ash pan is removed. The ash pan itself, is the largest ever made for an Oak stove. The ash pit is joined to the bottom by a dove-tail joint, making it as air tight as if in one piece. The **door** is fastened to the base, and not to the frame, which makes the base absolutely air tight, as only three pieces compose the entire base. The door has a screw draft register, of the best nickel plate. The air is admitted through the screw draft register. It then passes through the hot air chamber, constructed around the middle ring, mixes with the smoke and gases, and insures perfect combusion of all fuel. This, of course, means economy, and the most heat for the least fuel.

The leg base is attractively designed. The foot rails extend ¾ of the way around the stove, and hides the fire pot. The top ring, screw register, name plate, handles and foot rails are the finest quality nickel plate, ventilated to prevent tarnishing. The urn top is of very attractive design.

These are first class stoves, and ordinarily sell for double these prices. They must not be compared with the cheap, inferior, and almost worthless Oak stoves, being offered at similar prices.

The numbers show the diameter of the fire pot:

Stove No.	Shipping Weight Pounds	Price Each	Stove No.	Shipping Weight Pounds	Price Each
9	70	$2.95	15	155	$5.65
11	95	3.65	17	205	7.35
13	130	4.65	19	240	8.75

No. 1-A-426. This stove is of exceptionally good grade being mounted throughout with the best charcoal, cold rolled iron which will not change color or tarnish and is warranted not to turn red.

The base is very attractive, fire pot is extra heavy, hidden from view by a ¾ length nickel plate foot rails. A large drop feed door. Large ash pan. Draw center shaking grate. Screw draft register in ash door. Fully nickeled, trimmed with a neat urn at the top.

The air in this stove is emitted to the fire pot through a special hot blast tube, fitted to the top, with which this stove is provided.

All gas and smoke is positively consumed.

These stoves have only been in the market a few years but have demonstrated their intense heating capabilities and proven their absolute worth. They are powerful and quick acting. Made to burn hard coal, soft coal or coke. Shipped from Chicago.

The outer jacket is made of polished blue steel and cannot tarnish, it is doubly protected inside against the intense heat.

No. of stove, size and dia. of fire pot.	Shipping Weight	Price
11	135 lbs.	$4.60
13	165 "	5.65
15	180 "	6.65
17	200 "	8.30
19	235 "	9.75

Cannon Wonder

No. 1-A-428. This is an excellent neat cannon stove, carefully made of first class material throughout. The body is of the best type for strength and heat radiation purposes. Fire pot is extra heavy, is corrugated and fitted with shaking and dumping grate, below which is a sliding arch door, and large ash pan. The top is fitted with a large cover through which wood, etc., can be placed in the stove. Will burn anything combustible. The larger sizes are ideal for stores, halls, etc.

No. of stove and dia. of fire pot	Height	Weight	Price
9	23½	40 lbs.	$ 1.95
10	26	55 "	2.35
11	27	70 "	3.25
13	40	120 "	6.50
15	46	160 "	7.85
17	47	220 "	9.75
20	56	300 "	12.00

Nickel Plated Marvel Sun Oak

No. 1-A-429. This stove is identically the same as the Bahama Sun except that it has a much more handsome appearance. The front is fitted with large nickel plated wings of griffin design. The door is mica filled, adding considerably to the general attractiveness. Above the mica door, is a heavy nickel plated arch reflector. This can be furnished in sizes 13, 15, 17 and 19 only. Price $1.35 more than the same size stoves in lot No. 1-A-424.

"Marvel" Parlor Heater

No. 1-A-427. This beautiful parlor heater is known as the only successful base burning stove, suitable for either hard or soft coal, and also wood. It is large, strong, extremely handsome, having the following parts highly nickeled with the finest nickel plating:—base, foot rest, revolving draft damper, side rails, swinging top, urn, handles and large reflector over the front mica door, main top. Has griddle cover, permitting cooking by swinging the top around. Entire top can be removed for large pieces of wood, which might not go in the large fire door. At the end of stove is large fire door, below which is a small hearth. The grate is lower than this hearth, so ashes cannot spill on the floor or rug. The ash pan is the full length of the bottom grate, which is of duplex pattern for either coal or wood, as desired. It is a fine base burner with what is known as the front dining flue construction. This is a new type of stove, which has come to stay, and is unsurpassed, excepting by a self feeder.

The number of the stove shows the length of fire box, for wood.

No.	Door	Height	Width	Weight	Price
21	9 x 12 in.	43 in.	28 in.	300 lbs.	$13.90
23	10 x 13 "	46 "	30 "	340 "	16.40
25	11 x 13 "	49 "	32 "	385 "	18.75

Depot Grand Cannon Heater

Chicago Warehouse Stock.

No. 1-A-425. This is a very large, extra heavy cannon stove, a special design and recommended for stores, offices, schools, ware-houses, railway depots, etc.

The fire pot or body measures 21 inches in diameter and over five feet high.

The fire pot is of an elongated barrel shape, this having been proven the strongest type as well as being best for radiating heat.

Draft is admitted through the ash pit door, which is equipped with a sliding damper, main draft however being through base of the fire attachment through numerous holes, surmounted with a ring regulating device.

Fuel is admitted through large double sliding mica doors at the front. There is an additional cover at the top which can also be used for fuel.

The leg base is **extra heavy** and has an extra wide and deep front which adds to the general appearance of the stove and prevents ashes dropping when cleaning out. This stove can be fitted with a large drum at the top. This can be made by any tinner. It has a special air top construction of very few parts and will give a wonderful amount of heat. Will burn any kind of fuel desired, in fact, it will burn anything that is combustible. One size only.

This stove usually sells for more than $25.00. Shipping weight approximately 345 pounds. Price..... $14.75

Coal, Wood and Gas Stoves

Shipped from Chicago Warehouse.

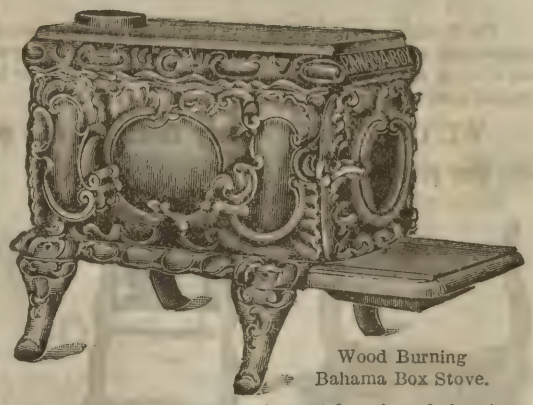
No. 1-A-509. HOME COTTAGE heater. This is a very handsome cottage stove of original and beautiful patent design. Is one of the most effective stoves of its kind. Is constructed of heavy moulded castings, strongly braced throughout. It is of elaborate design, has broad extensive mica, permitting free radiation of heat and making it cheery and bright.

Can furnish these for wood, for coal or gas. Be sure and specify for which it is desired.

The number of the stove shows the length of the fire pot for wood. Both upper and lower doors are mica filled. The fuel door being at the side with nickel shelf at the bottom. There is also attractive foot rest running clear across the front. Swing top.

Highly recommended and guaranteed.

Our No.	Length. In.	Height. In.	Weight. Lbs.	Wood and Gas. Price.	Coal only. Price.
15	19	30	65	$3.35	$4.00
17	21	34	75	4.00	4.65
19	23	38	90	4.65	5.65
21	25	42	115	5.65	6.65
23	27	46	135	6.65	7.75
25	29	50	160	7.75	9.00



Wood Burning Bahama Box Stove.

No. 1-A-510. A strong substantial well made box heating stove. One of the finest ever produced and an ornament to any parlor. Elegant, massive appearance. Two covers on top. Has large swinging door. Hearth is big and roomy. Commonly used for cook stoves

Put together with screws instead of rods, the best construction. The last two figures of numbers show the length of fire box.

No.	Height.	Weight.	Price.
118	20 in.	55 lbs.	$3.00
228	26 "	115 "	5.65
231	29 "	155 "	7.00
234	29½ "	165 "	7.90

No. 1-A-508. Todd Parlor Heater. These stoves have been in high repute for years, and they embody a number of new features, among which we might mention the automatic damper which prevents smoking when the door is open, adjustable lining which can be placed in the stove after it is mounted, smoke arrester, hung at top of door, inclined bottom lining, allowing draft to pass *under* the fuel. A very large feed door adjusted to sunk crevice in front and making it perfectly air-tight. Nickel trimmings, adjusted without the use of bolts. The door is large. Cast of the best material in an attractive design, has one slide damper, pull out hearth with roomy ash receiver. Side rail, name plates, knobs, front and top ornaments and urn are the best quality nickel. The number of the stove shows the length of the fire box. The body is made of polished blue steel, both ends being cast. The oval shape affords a maximum of strength and radiating capacity.

No. 1-A-508.

Stove	Weight	Price
No. 1-A-2125	175	$ 8.65
No. 1-A-2127	185	9.00
No. 1-A-2129	200	10.00
No. 1-A-2131	210	10.50

CHENIERE GAS STOVE

Shipped from Cent, Ohio.

No. 1-A-1023. The Gas Stoves designated under this lot number represent the best product of one of the most prominent gas stove manufacturers of this country. This design is so constructed as to burn either natural or artificial gas. When ordering state which you prefer. The entire oven bottom is made of cast iron, which is a very sanitary as well as salutary advantage. The oven door has a spring balance and opens flush with the oven bottom. It is equipped with a high grade thermometer which is attractively nickel plated. It is 33 in. high and 22 in. deep, (front to back.) The base and entire front are of Rococo design, cast iron. Note that the lower oven is fitted with a broiler pan which can be adjusted to several different heights, depending on how close you wish to get the meats, toasts, etc. to the blaze. Illustration shows the top for artificial gas. It is furnished with closed top and bridge for natural gas. The end shelves are removable. Top is fitted with three standard star burners, one triple capacity giant or double burner with simmering burner in the center, which can be used for keeping coffee hot and for other purposes where a large burner would be impracticable. This is a perfect baker and considered from all points is an exceptional value. The handles for turning on the gas are made of nickel plated brass, fitted with wood handles, insuring coolness at all times.

No. 1-A-1023. Size of oven is 16x16 in. Top is 36 in. long. Weight, 180 lbs. Price $14.65

No. 1-A-1024. Top 38 in. long, 16x18 in. oven. Weight, 195 lbs. Price $15.15

No. 1-A-1025. Has heavy cast iron legs in place of lower broiling oven. Top 36 in., 16x16 in. oven, 30 in. high. Weight, 160 lbs. Price $12.50

No. 1-A-1026. 38 in. long with 16x18 in. oven, with heavy cast iron legs and without lower broiling oven. Weight, 170 lbs. Price $12.75

No. 1-A-466. This is a small, heavy and properly made Laundry Stove, with center and two No. 8 covers on top. These stoves have dumping grate, large pouch feed in front for coal, swinging ash door, and large ash pan. May be used either for laundry, heating or cooking purposes. Top is large enough for any wash boiler. As illustrated with 8 sided fire pot and racks for holding and heating irons. Wt., 90 lbs. Price, ..$4.00

No. 1-A-467. Same as above with four 8 in. holes. Weight 100 lbs. Price..... $5.00

No. 1-A-468. Same as No. 1-A-466 but with round fire pot. Wt., 65 lbs. Price..... $2.25

HOTEL FURNITURE

The furniture on this page is well finished but was manufactured cheaply for country hotels and mail order houses. For temporary requirements or where looks are the chief essential they will be found better than anything else obtainable for the same amount of money. However, we much prefer to sell a better grade of goods and assure you that the slightly higher priced articles on other pages of this catalog are better values when serviceability and general excellence are considered.

WE GUARANTEE every thing on this page to be better than can be bought anywhere else for anything like our prices.

No. 1-A-172. Commode attractive design, full swell upper drawer, base contains one panel door compartment, 2 good sized drawers for linen, etc. Top is 31 in. long. Solid cast brass handle and knobs. Weight, 60 lbs.
Price, each.....**$3.45**

No. 1-A-173. Toilet Commode, made of selected stock, has full swell upper drawer and large linen compartment below. Has a French beveled plate mirror, size 18x10 in., beneath which is fitted a towel rack. Weight, 60 lbs.
Price, each.....**$4.15**

All pieces on this page are shipped direct from the point of purchase in Northern Michigan. All are made of American quartered oak.

No. 1-A-397. American, quarter sawed oak, Princess Dresser, finished golden. Has a double shaped top, measuring 38 ins. in length and 21 ins. in width. Base contains two full swell drawers and one full length drawer. Note the heavy Cheval effect mirror which measures 30 in. high and 18 in. wide. The glass is beveled and guaranteed. flawless. Top is neatly ornamented. Weight, 100 lbs.
Price, each.....**$7.75**

No. 1-A-398. American quarter sawed oak Buffet, rich golden gloss finish. Base is 42 ins. long and 21 ins. wide. Contains two roll top drawers and roomy cupboard below. The beveled mirror is 32 ins. long and 16 ins. high. The top of the mirror and bottom rail of the buffet are neatly ornamented with artistic carvings. Weight, 116 lbs.
Price, each.....**$8.15**

No. 1-A-421. This Dresser is of the straight front variety. It has three full sized drawers, fitted with brass trimmings and substantial locks. The beveled plate mirror is 20 ins. wide and 18 ins. high. The top is 38 ins. long. It is neatly ornamented.
Weight, 110 lbs.
Price.....**$6.60**

No. 1-A-332. This Buffet is made of American quarter sawed oak finished golden. It has an extra heavy quality beveled plate mirror 37 ins. long and 12 ins. high. It is profusely adorned with deep clear cut hand carvings. It is an attractive article and one that will meet with your utmost approval. Both drawers have roll fronts. Note the double door compartment for linen, which is adorned with carved wreath ornamentation as illustrated. Top is 42 ins. long.
Weight, 115 lbs.
Price, each.....**$10.20**

No. 1-A-175. Chiffonier, This chiffonier has a top 30 ins. wide and 48 ins. from the floor. It contains 5 full length drawers. The upper one having a swell front. The mirror is of selected bevel glass. and measures 10x12 ins. Weight, 85 lbs.
Price.....**$5.30**

No. 1-A-174. Same as No. 1-A-175 but without mirror back, having in its place a small ornamented wood back panel. Weight, 75 lbs.
Price, each.....**$4.40**

For better chiffoniers see page 391.

No. 1-A-394. This Colonial Chiffonier is made of American quartered oak, finished in a rich golden gloss. Has two projecting top drawers which are fitted with wood knobs. The legs end in heavy claw feet. Chiffonier is 34 ins. wide and is fitted with an oval beveled plate mirror, measuring 20x16 ins. The entire piece is neatly ornamented and is considered an exceptional value in the strictest sense of the word.
Weight, 100 lbs.
Price, each.....**$8.10**

No. 1-A-395. This Colonial Dresser is a companion piece to the chiffonier offer under lot No. 1-A-394. Construction and general design is very simple. Top measures 40 ins. in length and 20 ins. in depth (front to back). Has a plate mirror 28 ins. wide and 22 ins. high. All drawers are fitted with good substantial locks. Upper drawers have wood knobs which you will find on the costliest furniture. Especially designed for hotel use. Made of American quartered oak, finished in a rich golden gloss. Weight, 115 lbs.
Price, each.....**$9.25**

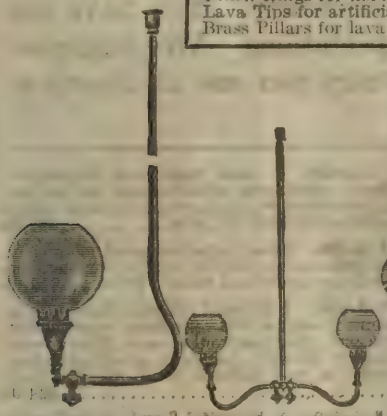
No. 1-A-396. This American quarter sawed oak Dresser is 42 ins. long and 20 ins. wide. It has a serpentine top to harmonize with the serpentine fronts of the divided top drawers in base. Has a beveled plate mirror measuring 28 ins. wide and 22 ins. high. Frame is rounded and has a neatly carved top. Drawers are fitted with substantial locks and excellent brass knobs and handles. This is a wonderful bargain at a low price.
Weight, 120 lbs.
Price, each.....**$9.60**

GAS FIXTURES

All of the fixtures on this page are up-to-date, handsome, high grade fixtures and the prices are very exceptional, quality considered. All of these goods are brand new and represent only the finest workmanship. All fixtures are fitted exactly as shown. Even the most inexpensive fixtures are the most durable made, being rigid, carefully constructed, attractive and tested for acetylene gas and for extra high pressure. Guaranteed absolutely perfect. Fixtures not specified in any standard finish can only be furnished in oxidized copper, doubtless the most acceptable finish of all for ordinary requirements. Fixtures quoted in any standard finish include oxidized copper, oxidized brass, brush finished brass, polished brass, rich gold and black, wrought iron and polished steel finishes. *Glassware, burners, etc., are not included with any fixtures.*

4 inch Rings for holding globes.....50c doz.
Lava Tips for artificial gas.....15c doz.
Brass Pillars for lava tips.....15c doz.

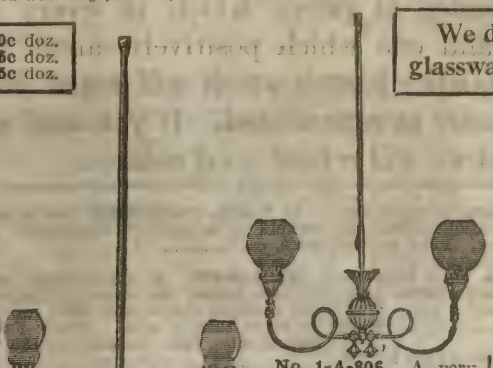
We do not sell glassware.



No. 1-A-802. Single light ell pendant or ceiling drop, made of ⅛ in. pipe, 30 in. long.
Price, each....35c

No. 1-A-803. A simple, pleasing, attractive 2 light ceiling pendant, 36 in. long and 18 in. wide. Oxidized copper finish, each.....75c

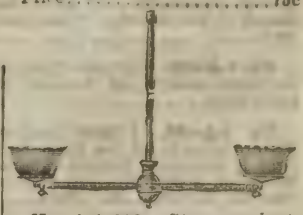
No. 1-A-804. A pleasing 2 light fixture with 18 in. spread and 36 in. drop. Price, each, 85c
A spun vase ornamenting the upright is a very artistic morning glory design.



No. 1-A-805. A very pleasing 2 light fixture, 36 in. drop, ⅛ in. pipe, neatly curved arms, 18 in. spread, heavy ball center ornament exceptionally attractive, oxidized copper only.
Price.....$1.00

No. 1-A-806. A very durable, rigid and most attractive 2 light or 3 light fixture, illustration showing 2 light, length 36 in., spread 19 inches large corrugated body ball and vase ornaments, attractively curved arms. A fixture we cannot praise too highly. 2 light oxidized copper. Price.....$1.15
Price. 3 light..... 1.55

No. 1-A-807. Store ceiling pendant, 36 in. drop, 24 in. spread, ¼ in. stem, pipe ⅛ in., oxidized copper.
Price.....75c



No. 1-A-808. Store pendant, stem ⅜ in. pipe 36 in. long, 36 in. wide, pipe ⅛ in. diameter. The center is ornamented with a large body ball, 4 in. in diameter a very fine store fixture.
Price 2 light, $1.30; 3 light, $1.85; 4 light, $2.60

No. 1-A-813. Hall light of a beautiful and richly decorated harp design, exactly as illustrated, but without glassware, complete with ceiling plate, smoke arrester, heavy brass cased fixture, 36 in. long. Can be furnished in any standard finish desired.
Price.....$2.50

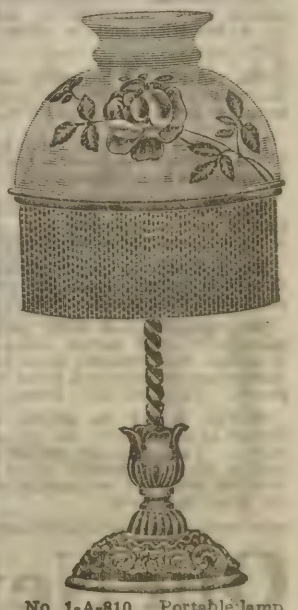
EXTRA LENGTHS. Any fixture desired for extra high ceiling can be furnished as long as required at 30c additional per foot or fraction thereof. Be careful and specify such extensions when desired. Any fixture will be cut down to any desired length at 10c per foot additional.

No. 1-A-812. A beautiful, richly ornamented genuine brass casing gas fixture, suitable for any requirements, 36 in. drop, 18 in. spread. The illustration shows a 2 light. This can be furnished for 2, 3 or 4 light, also properly connected for gas as desired. The handles are of heavy spun brass, as well as the ceiling plate, vase, large body ball and rope encased pipe.
Price.....$2.50
Price, Three Light..... 3.00
Price, Four Light..... 3.75
Everything included except glassware. Any finish desired without extra charge.

No. 1-A-815. A very attractive rope bracket which can be furnished in a rich gilt or oxidized copper, no other finishes. The illustration shows this with 2 swings or hinges, attractively figured joints throughout, as well as handle.
Price, gilt.....$0.50
Price, oxidized copper..... .65

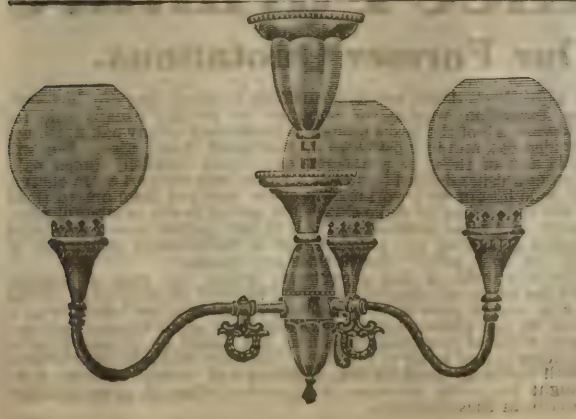
No. 1-A-816. Is the same, but is a stiff wall bracket and does not swing at all.
Price, gilt.....$0.25
Price oxidized copper..... .30

No. 1-A-817 is the same as No. 1 A-815 but with one swing.
Price, gilt.....$0.40
Price, oxidized copper..... .50

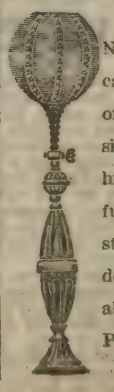


No. 1-A-810. Portable lamp, complete as shown. For either gas or electricity, with 6 ft. of lamp cord or 6 ft. of lamp wire tubing as the case may be. This beautiful portable is made of the highest quality material and can be furnished in any standard finish desired, attractively ornamented base, flower vase and rope upright with 10 in. gas or electric shade of opal ground design floral decorations, with rich beaded fringe as shown. This is an exceptionally high grade reading or library lamp, or for parlor use, will more than please.
Price.....$3.75

No. 1-A-814. Complete as shown, for electric light. Same price. This lamp is especially recommended in a rich golden finish, this being one of the most handsome finishes for a portable lamp.



No. 1-A-811. A very pleasing, up-to-date and massive Gas Fixture, brass cased throughout, and of the finest possible workmanship. 36 in. long, 18 in. wide. Illustration shows 3 light. Can be furnished in any standard finish desired without extra charge. Very heavy ceiling plate, pipe and body ball; rich handles, exceptionally pleasing when seen from below. Complete as illustrated, but without glassware.
Price, 2 light.....$2.75
Price, 3 light..... 3.25
Price, 4 light.... 3.60



No. 1-A-809. Newel. A brass cased Gas Fixture of the highest possible grade, 20 in. high. Can be furnished in any standard finish desired, as listed above.
Price, without glassware.$3.00

Miscellaneous Items; All Exceptional Bargains

The various articles described below represent odds and ends selected from our enormous stock. They are quoted at prices which in every instance assure the article listed is an exceptional bargain and one which positively cannot be duplicated elsewhere. You have our word for it that the quality is such which will equal your highest expectations. We guarantee these items to be exactly as represented. If you find any to the contrary you are at liberty to return same to us and we will refund your money.

No. 1-A-497. 16 assorted designs in round and octagonal brass placque wall decorations of Parisian importation in heavy relief figures. Ideal articles for dens, etc., 16 inches in diameter.
Worth $3.50. Many of these have heads of famous personages such as Michael Angelo, Rembrandt, Beethoven, Shakespeare, etc. Price, each.....$1.30

No. 1-A-498. 12 brass finger bowls from Egypt. Different designs, all wrought entirely by hand, price, each.....$0.45

No. 1-A-499. 1 large handsome electric light fixture suitable for the finest parlor or den. The light is concealed beneath a large bunch of glass grapes on a beautiful stand in leaf effects, worth from $15.00 to $25.00. Price.....$8.00

No. 1-A-500. 1 beautiful antique copper electric portable, with a beautiful large art hand made shade of the highest craftsmanship. Price..$27.50

No. 1-A-501. A Turkish hammered brass hanging lamp; suitable for a den or curio hall, hung by a brass chain, hand wrought. Price.....$6.50

No. 1-A-502. A 4 foot solid saddle seat, bent spindle back quartersawed oak settee suitable for a reception hall or office. Value, $18.00. Price.....$7.75

No. 1-A-503. 1 beautiful saddle seat, Circassian walnut reception rocker, French legs, low back, no arms, Colonial design. Price.....$5.75

No. 1-A-504. 1 Curly Birch ladies' writing desk of the very highest possible grade, regular French style, sample line. Price.....$27.50

No. 1-A-505. A genuine mahogany, genuine leather back and spring seat, broad arm rocker. A beautiful chair at a ridiculous price.....$6.95

No. 1-A-506. 1 simply designed Colonial style Circassion walnut music cabinet of the choicest grain wood throughout. Price.....$7.75

No. 1-A-507. A solid mahogany cellarette, beautifully hand carved about 30 inches high, 18 inches wide, wrought brass handles, mahogany drawer bottom interior is fitted for wine and liquor glasses. Value $32.50. Price.....$10.00

NOTE: All of the articles on this page are limited as to quantity, but are very special values indeed. You positively will be surprised with the quality of workmanship which in almost every instance could not be manufactured for less than the price we quote.

16 roomy, golden finish, comfortable large arm rockers of attractive appearance, worth $2.50, price, each.....$1.10

No. 1-A-476. 40 miscellaneous solid oak chairs in both golden and mission finishes, suitable for bed room of almost any place around the house, no more than 3 alike. Finely finished, genuine leather seats, value from $3.00 to $5.00, price.$2.25

No. 1-A-477. A beautiful genuine mahogany top dining table 45 inches wide, 8 feet long, with heavy pedestal and large ball and claw feet. $40.00 value, price.....$13.50

No. 1-A-478. 25 cloth bound books of fiction, excellent authors. These have come to us from disbanded public libraries. A set of 25.....$2.50

Some of these are worth almost the price of the entire lot.

No. 1-A-479. The same as No. 4, but books of travels, history and science, 25 for.....$3.00

No. 1-A-480. 25 excellent cloth bound books suitable for youths of from 10 to 18 years of age, excellent subjects. Sell, 25 for.....$2.50

No. 1-A-481. 8 slightly soiled elastic cotton felt mattresses, absolutely brand new, and perfect excepting that they are slightly soiled and shop worn. Some of these are worth as much as $12.00. Price, each.....$4.65

No. 1-A-482. 3 shop worn extra high quality box springs, 2 for iron beds and one for wood bed, full size only, excellent ticking. Values up to $20.00, price, each.....$9.00

No. 1-A-483. 60 mosquito canopies complete for hanging over beds, can be folded in the day time or when not desired for use, shopworn but not damaged. Each.....$0.40

No. 1-A-434. 16 brand new heavy oil tempered coil springs, 4 feet wide for wood bed, black japanned, considerably shop worn but perfect in every respect. Worth $2.00, price each.....$0.65

Full information of anything mentioned in this page will be gladly furnished. We cannot list books as the price quoted does not pay for the time and trouble.

No. 1-A-486. 1 high grade mission clock, about 6 feet high with brass hands and figures. Weight attachment, guaranteed time keeper, strikes every ½-hour, a very attractive article. Price.$5.85

No. 1-A-487. 1 solid mahogany davenport, extra large, upholstered with Spanish leather and all hair, very massive, hand carved frame of crotch mahogany, worth $300.00, price.....$80.00

No. 1-A-488. 1 stack quarter-sawed golden oak, sectional bookcase containing a ladies writing desk and a book case above and below. Price.....$16.00

No. 1-A-489. 1 Colonial full swell front Circassian walnut dresser of the very finest construction. 45 inches long, 25 inches front to back, French bevel plate mirror 24"x30", beautiful scroll standard. This wood is the costliest used for furniture. Price.....$24.00

No. 1-A-490. 1 beautiful hand carved curly birch princess dresser, top 48"x25", mirror 24"x40". Full swell front. Value $50.00. Price.....$24.00

No. 1-A-491. 1 guest size genuine mahogany dressing table, top 28 inches long and 17 inches front to back, contains 1 full size drawer. French plate glass, beveled mirror 18"x12". A dainty, handsome article. Price.....$5.75

No. 1-A-492. 1 birdseye maple chiffonier, containing 6 swell front drawers, extra large size, handsome French bevel plate mirror 16"x22". Price.....$16.00

We could fill this entire catalogue with just such bargains as the above. Be sure and write us as we have at all times thousands of miscellaneous articles. Send us a list of your requirements, giving full information and in 9 cases out of 10 we can supply you with what you wish. Give full data regarding size, finish, general style, wood, etc., and when possible mail us a cut and we will quote you from our stock.

No. 1-A-493. 1 bronze statue from the Paris Exposition, a beautiful work of art, 2 feet high, the figure being that of a beautiful woman. Price.....$13.50

No. 1-A-494. 1 vase of Venetian bronze made by the celebrated Kuzzi & Co., of Venice, Italy. 16 inches base, 18 inches high, value $100.00. Price.....$42.00

No. 1-A-495. 1 lot of 12 inch water jars made by the above firm, all hand wrought bronze, inlaid with blue beading. A rare value at each.....$14.00

No. 1-A-496. 1 massive Parisian bronze from the Paris Exposition, 26 inches high, the figure of a young girl mandolin player. A beautiful piece for a large pedestal or newel. Price....$22.00

Our New Stock of Office Furniture

Reduced 10 to 15 Per Cent Below Our Former Quotations.

On the following pages will be found, accurately illustrated and carefully described, a portion of our roll top and flat top desks, swivel chairs, side chairs, office and directors tables, bookkeepers desks, chairs, stools, filing cabinets, etc. All of this material is brand new and in perfect condition. We don't catalog any shop worn, slightly defective goods, nor anything so cheaply constructed as to be of doubtful value. All features which are to be expected in first-class goods will be found in ours. Although desks are being constructed of inferior wood such as maple, ash, elm, etc., we do not catalog them. We endeavor at all times to supply our patrons with extra quality goods and neither buy nor sell goods primarily designed to be sold by description only. We have a very attractive salesroom and are doing an immense Chicago business with the better class of office furniture users.

General attractiveness, usefulness and thorough construction such as will withstand hard service are the essential features embodied and guaranteed in every item we catalog. All of our desks are made with dust proof flexible curtains, high grade locks, built-up panels, dove-tailed and glued drawer construction (no nails) are fitted with ball bearing steel casters. The pedestal drawers in all roll top desks are automatic, locking and unlocking by lowering or raising the curtain. We neither buy nor sell "undesirables."

We do not mean to infer that our cheaper desks are as fine or as carefully constructed as banker's desks, nor as beautifully finished, they are, however, without any exception whatsoever superior to articles usually sold for general purposes. All of the desks quoted in golden oak or any oak finish are in stock in golden oak and in most cases in weathered finish also. We will gladly refinish any of these in weathered oak, Early English, fumed oak, Antwerp or other finishes desired to match surroundings without extra charge. This work is done by our own workmen in spare time and from one to three weeks time will be required to make shipments, owing to the number of processes necessary to proper refinishing. All of our quarter sawed oak office furniture quoted as rubbed and polished will be furnished in either dull or wax finish at the same price. Our finishes are standard.

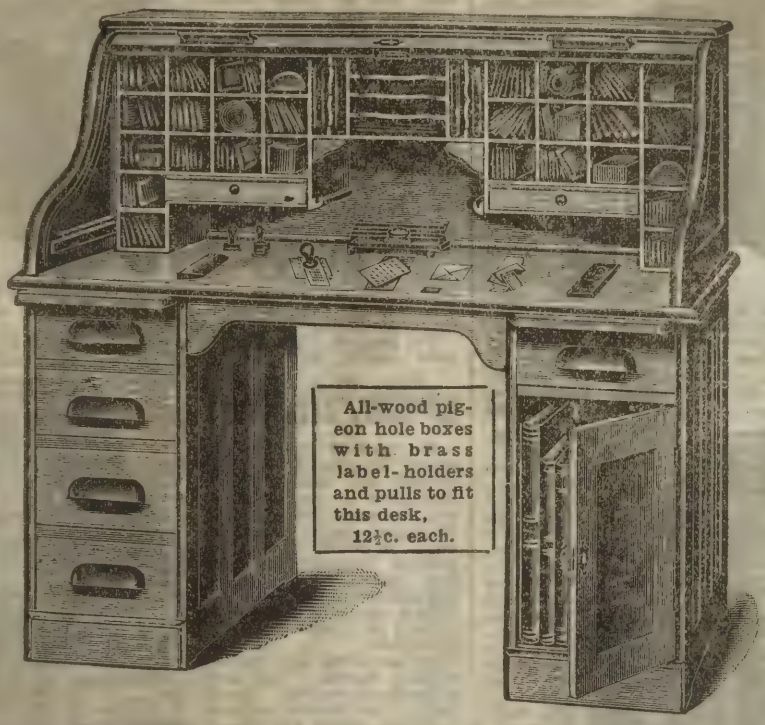
The wonderful growth of this department within the past 12 months together with the many commendatory letters received warrant us in stating that if you wish one or more good up-to-date pieces of office furniture at a decided saving we can accommodate you. We have at all times a very extensive reserve stock of miscellaneous items and would be pleased to give personal attention to any letter of inquiry. The most rapid filling of orders, consistent with thorough examination, checking and careful packing, is at all times sought for. Our immense stock and excellent shipping facilities aid us materially in these respects.

DESIRABLE DESKS At Less than FACTORY PRICES from Receivers' and Manufacturers' Sales.

An Ideal Business or Professional Man's Desk. Made of Selected Figured Oak Throughout, Finished Golden, Weathered (Mission) or Imitation Mahogany, as Preferred. We Offer It at Less Than Cost.

No. 20-A-15.

This high roll top desk is 54 inches long, 50 inches high and 30 inches front to back. The interior is extremely practical and roomy, containing 28 pigeon-holes, each 4 inches wide, 3½ inches high and 8½ ins. deep; blotter racks at sides and back; 2 pencil racks; 4 partitions for letterheads; 4 for envelopes, and 2 private drawers. The left pedestal contains 4 drawers, all measuring 11 inches in width and 23 inches front to back inside. The three upper drawers are 3½ inches high inside, the bottom drawer 9 inches high inside. The right hand pedestal contains 1 drawer and a spacious cupboard with two large book stalls, each measuring 19 inches high, 4 inches wide and 14 inches deep. It also contains 4 large pigeon holes not shown in the illustration. Arm slides at both sides. You cannot get as roomy a desk, so well made and finished, for much less than double our price,



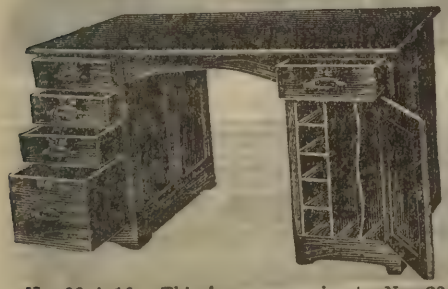
All-wood pigeon hole boxes with brass label-holders and pulls to fit this desk, 12½c. each.

The curtain is dust-proof, being glued on canvas, automatically locks all drawers when closed, fitted with a double tumble lock. **All panels are rotary-cut, 3-ply oak.**

The finish and cabinet work must be seen to be fully appreciated. All drawers work smoothly, being full dove-tailed and smoothly finished inside and out. Guaranteed not to check, warp, bind or loosen. They are carefully packed for shipment and will reach destination in first-class condition. **Ball bearing casters. Shipping weight, 250 lbs.**

$16.00

GOOD FLAT TOP DESKS.



No. 20-A-16. This is a companion to No. 20-A-15 shown above, being identically the same in wood, finish and size. The top measures 54 inches long and 30 inches wide. All drawers have individual locks. Two feet of knee space between pedestals and an arm slide at the top of each pedestal. Extremely well made and finished in golden oak, weathered oak or mahogany finish, as you may desire. Ball bearing steel casters. Shipping weight 150 pounds. Price **$9.65**

No. 20-A-17 is the same as No. 20-A-16 except that the right pedestal is identical with the left pedestal and contains 4 drawers of the same sizes as those in No. 20-A-15. Price, any finish.. **$10.35**

No. 20-A-18 flat top desk is exactly the same as No. 20-A-16, but 6 inches shorter. The top measures 48 inches long by 30 inches wide. The knee space is but 18 inches, the drawers being of the same full size and with an individual lock on each. Shipping weight 140 pounds. Price, any finish.. **$9.00**

No. 20-A-19. This flat top desk is just the same as No. 20-A-18 except that it has 4 drawers in the right hand pedestal instead of a cupboard. Price, any finish **$9.70**

Any of the above desks can be fitted with a back panel for 75c additional.

We recommend this for teachers' use, also when desk is to be used singly in the center of a room.

OUR GUARANTEE is Absolute Satisfaction

You are bound to be perfectly pleased with any desk on this page.

No. 20-A-20. This excellent salesman's or student's desk is made of selected figured oak and has a heavy solid writing bed with round corners. Four drawers of the same dimensions as in lot No. 20-A-15. Each drawer is fitted with an individual lock. Measurement 42 inches long, 30 inches wide; shipping weight 100 pounds.
Price, golden oak, weathered oak or mahogany finish **$5.50**

No. 20-A-21 is exactly the same as No. 20-A-20 except that it is 48 inches long. Shipping weight 105 pounds. Price, any finish **$6.25**

BOOKKEEPER'S STANDING DESKS.

Golden Oak, Weathered Oak, or Mahogany Finishes.

An entire factory stock of exceptionally well constructed and designed standing desks. These are made of solid plain oak and are finished all around. The oak legs are attached with patented bolts which give intense rigidity. This also permits the desks to be shipped K. D. with the legs off and reduces both freight expense to the purchaser and risk of breakage in shipment. A neat book rack extends the full length of the desk at the back. Drawers fitted with individual locks. All are 46 inches high and 32 inches front to back. They come in any of the following lengths:

No. 20-A-23, 4 ft. long, shipping weight 150 pounds..... **$10.50**

No. 20-A-24, 5 ft. long, shipping weight 175 pounds..... **11.25**

No. 20-A-25, 6 ft. long, shipping weight 200 pounds..... **12.50**

No. 20-A-26, 7 ft. long (5 legs), shipping weight 230 pounds..... **17.50**

No. 20-A-27, 8 ft. long (5 legs), shipping weight 260 pounds..... **19.50**

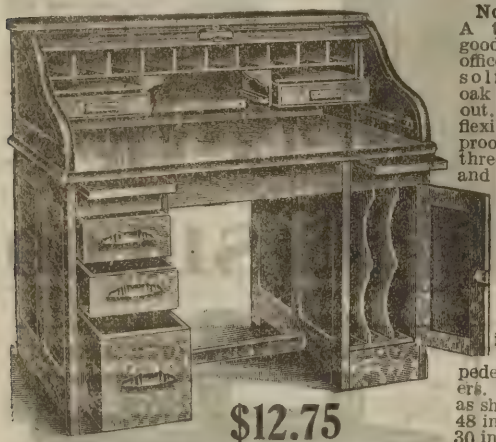
No. 20-A-28, same as No. 20-A-24, but double, weight, 325 lbs. Price..... **18.00**

No. 20-A-29, same as No. 20-A-25, but double, golden or weathered. Price,.. **21.00**

RELIABLE ROLL TOP DESKS

No. 20-A-01. A perfectly arranged figured oak desk, compact yet with full size drawers throughout, also plenty of knee room. Just the desk for office, salesman, library or study. The large center drawer has an individual lock, the other four drawers lock automatically by closing the dust proof roll curtain. The bottom drawer is of double depth.

The interior contains eight full size pigeon holes, two small drawers, two stationery compartments, two pencil racks and three blotter racks. Closed back. 3 ply panels throughout. Ball bearing steel casters. Moulded drawer fronts. One arm slide. Desk measure 42 inches long, 30 inches wide and 45 inches high. Shipping weight 175 pounds. Golden Oak, Weathered Oak or Mahogany finish. Usual price, $18.00. Our price **$11.35**



No. 20-A-04. A thoroughly good roll top office desk, solid figured oak throughout. It has flexible dust proof curtain, three drawers and cupboard with book spaces, two extension slides below writing bed, built up panels. Automatic locking device on pedestal drawers. Interior as shown. Size 48 inches long, 30 inches wide, 45 inches high. Weight 200 pounds. Price **$12.75**

No. 20-A-05 is exactly the same desk as No. 20-A-04 except that it is 54 inches long and weighs 215 pounds. Price **$14.75**

No. 20-A-06 is exactly the same as No. 20-A-04 except that it is 60 inches long, and weighs 225 pounds. Price **$16.75**

The above three desks can be furnished with drawers in the right hand pedestal exactly the same as in the left hand pedestal at 75c. additional, that is $13.75 for the 4 ft., $15.50 for the 4½ ft., and $17.50 for the 5 ft. lengths. Be sure and specify whether Golden Oak, Weathered Oak or Mahogany finish is desired.

No. 20-A-08. This high grade sanitary or leg desk is made throughout of seasoned figured plain oak. It is 54 inches long, 46 inches high and 30 inches front to back. Each pedestal contains three wide drawers with moulded fronts and an arm slide at the top. The large center drawer has private lock, all others are locked by pulling down the curtain 3 ply built-up panels throughout. The legs are solid oak 1½ inches thick, tapered at the bottoms. The interior contains three blotter racks, two pencil racks, two book stalls, two stationery compartments; two large drawers, four envelope compartments, pigeon holes as shown and a private locker with key for postage stamps, private papers, etc. High grade casters. Shipping weight 260 pounds. Price, Golden Oak, Weathered Oak or Mahogany finish .. **$18.25**

No. 20-A-09. Exactly the same as No. 20-A-08 but 5 ft. long. Shipping weight 275 pounds. Price, any finish **19.75**

No.20-A-02. A very pleasing, thoroughly excellent home or office desk of the best figured, perfectly seasoned oak. This desk is nicely and practically arranged and has plenty of knee space between the pedestals. The left hand pedestal contains four drawers, the bottom one being of double depth; the right pedestal contains one drawer and a large book cupboard arranged inside as illustrated in desk No. 20-A-07. Both the single drawer and the cupboard have private keys. The interior is all that could be desired, being just as shown. Two arm slides; steel casters. The drawers in the left pedestals are locked or unlocked by lowering or raising the dust proof, flexible curtain

Length 48 inches, width 30 inches, height 46 inches. Shipping weight 200 pounds. Price Golden Oak, Weathered Oak or Mahogany finish, **$12.65**

No. 20-A-03. Exactly the same as No. 20-A-02 but with four drawers in the right hand pedestal, no cupboard; and with a closed paneled back. Price, any finish .. **$13.65**

YOU WILL BE DELIGHTED WITH EITHER OF THESE DESKS.

No. 20-A-07. Roll top desk exactly like illustration, solid figured oak, golden finish; also a few in weathered oak and mahogany finish. Length 54 inches, height 52 inches, depth 30 inches. One of the greatest bargains we have ever offered. Construction and cabinet work are of the highest character. The paneling is 3 ply rotary cut stock throughout. The drawers, which are of full size, operate without friction. Two arm slides above drawers. Closed back. The interior contains many convenient appliances, book stalls, pencil drawers, stationery compartments, blotter racks, etc. Shipping weight 260 pounds. An ideal business man's desk, worth far more than our extremely low price. Price **$18.00**

No.20-A-010. This solid oak desk has every desirable feature found in any of the desks above. It is extra wide and long measuring 33 inches front to back, 60 inches long and 46 inches high. It has the following special features not found in any of the other desks on this page; 5 ply framed-in, built-up and polished writing bed. Double top. Framed-in base. A very fine desk and a wonderful bargain at the price we quote ..... **$20.50** Shipping weight 275 pounds.

No.20-A-011. The same as No. 20-A-013 but 54 inches long. Price **$19.00**

No. 20-A-012. Exactly the same as No. 20-A-010 but 48 inches long. Weight 250 pounds. Price **$17.50**

No. 20-A-013. Exactly the same as No. 20-A-010 but with two cupboards in the right hand pedestal, the front cupboard being exactly the same as that shown in desk No. 20-A-07. In addition to this there is a secret divided cupboard at the end. See cut of No. 20-A-28 on next page. Price **$19 75**

No. 20-A-014. Exactly the same as No. 20-A-011 but with two cupboards in place of four drawers in the right hand pedestal. Price **$18.25**

No. 20-A-015. Exactly the same as No. 20-A-011 but with two cupboards in place of four drawers in the right hand pedestal. Price **$16.75**

WE HAVE ALL OF THESE DESKS IN GOLDEN OAK, WEATHERED OAK AND MAHOGANY FINISH, AT THE ABOVE PRICES.

OAK FRONT PIGEON-HOLE BOXES WITH BRASS PULLS AND LABEL HOLDERS TO FIT ANY OF ABOVE DESKS, 12½o

HIGH GRADE FLAT TOP DESKS
at Wholesale Prices

$10.50

No. 20-A-1. An exceptionally well made and attractive oak flat top desk, measuring 54 in. long, 33 in. wide and 31 in. high. Weight, 180 lbs. This desk has five full length drawers, two arm slides and the partitioned cupboard as shown, also the extra cupboard at the end of the desk. The base is framed-in all the way round. Moulded drawer fronts. The top drawer locks all those below when closed. An ideal desk for all around use, of simple clean lines, roomy and substantial, made of figured oak and nicely finished. Price, golden oak, weathered oak, or mahogany finish..... $10.50

No. 20-A-2. The same as No. 20-A-1, but with three more drawers in place of cupboards. Price, any finish..... 11.25

No. 20-A-3. Identically the same as No. 20-A-1, but 60 in. long and 33 in. wide. Weight 200 lbs. Price, any finish..... 11.00

No. 20-A-4. The same as No. 20-A-3, but with drawers throughout. Price, any finish..... 11.75

Also made of birch with polished genuine mahogany top. Price..... $3.00 extra.

$17.00

All Quartered Oak. An exceptionally attractive and valuable lot of desks at prices which will positively save you 35% or more. All of these desks are full quarter-sawed oak throughout — top, front, sides and back. The writing bed is of heavy, 5-ply, built-up stock, especially selected for its elegant grain. The drawers are all large, finely finished and will not bind or stick. Automatic locks throughout. The two lower drawers in the right hand pedestal are made into one extra deep drawer, partitioned for books. Moulded base all around. Drawer fronts raised. Projecting writing bed. All of these desks have a closed panel back, except the 66 in. length. Our stock comprises four sizes and both golden polished and wax finishes. Also weathered and Early English.

	Length	Width	Weight	Prices
No. 20-A-5.....	50 inch.	32 inch.	150 lbs.	$17.00
No. 20-A-6.....	54 inch.	32 inch.	165 lbs.	18.50
No. 20-A-7.....	60 inch.	33 inch.	180 lbs.	20.00
No. 20-A-8.....	66 inch.	33 inch.	220 lbs.	35.00

$12.75

No. 20-A-9. A substantial, selected oak sanitary flat top desk. Each pedestal contains 3 drawers, all full size. The lower drawers lock automatically by closing the upper drawer. Between the pedestals there is a center drawer with individual lock. The wood handles are screwed, not glued, on. The legs are heavy and taper slightly at the bottoms. This desk combines thorough quality, neat appearance and utmost convenience. The back panel is removable to permit the desk being used double when desired. Size 54 inches long, 30 inches wide. Shipping weight, 160 lbs. Price, golden oak, weathered oak, or imitation mahogany..... $12.75

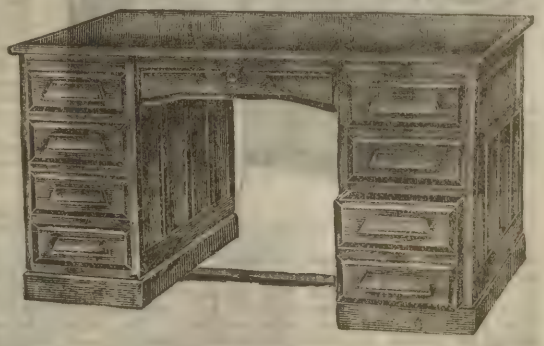
No. 20-A-10. 60 in. long, 30 in. wide, shipping weight, 175 lbs. Price, any finish..... 13.75

$18.50

No. 20-A-11. A thoroughly first class double flat top desk. The back of this desk is exactly like the front; in other words, it is two desks in one. This type of desk has become very popular in the last few years, meeting a long felt want. It saves space and money, and is for many purposes more convenient than any other form of desk. Made throughout of selected oak, unusually well finished. Extra heavy solid writing bed. Raised drawer fronts. Framed-in base. Ten drawers and two cupboards. Four arm slides. Ball bearing casters. Lower drawers lock by closing the top drawer.

Size, 60 in. long, 46 in. wide and 31 in. high, weight, 300 lbs. Price, golden, weathered or mahogany finish..... $18.50

No. 20-A-12. The same desk as No. 20-A-11, but with 4 drawers in each pedestal (16 in all) and no cupboards. Price, any finish..... 20.00



An up-to-date solid quarter-sawed oak flat top desk, which on account of its width (35 in.) is usable as a double desk. These were obtained in the same purchase as No. 20-A-5 and are of the same high grade finish, construction and materials. These desks do not have the over-hanging front and consequently the drawers are longer front to back. Simple yet heavy square lines throughout. All drawers are locked by closing the center drawer which itself is locked with a high grade flat key lock.

This desk is specially designed for use in the center of a room, the back being of the same workmanship and material as the front. The top is of very heavy, 5-ply, built-up stock. We can supply it in either a light golden wax finish or high polished as preferred. Also in weathered and early English finishes.

	Length	Width	Weight	Price
No. 20-A-13.....	50 inch.	35 inch.	175 lbs.	$17.50
No. 20-A-14.....	54 inch.	35 inch.	185 lbs.	19.00
No. 20-A-30.....	60 inch.	35 inch.	210 lbs.	20.50

Two desks in one $36

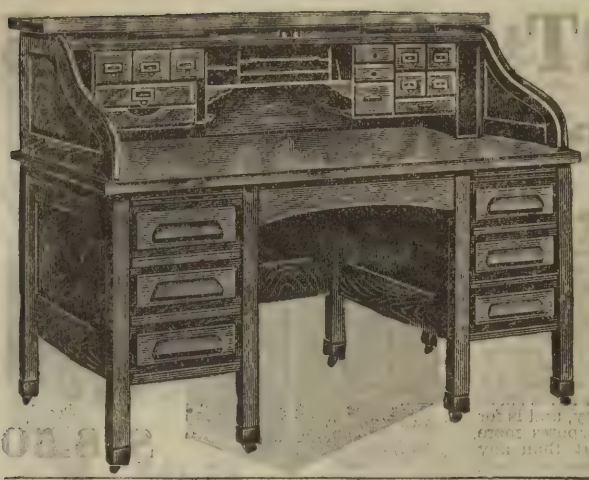
No. 20-A-31. A double flat top desk of the very finest grade. All quarter-sawed throughout. The stock is without exception the very choicest, the workmanship the finest. This desk is designed on simple, yet massive, square lines. The top is extra thick, being of 5-ply built-up stock. The base is framed-in all around. All panels are 3-ply built-up stock handsomely and deeply moulded. The drawers are extra wide, finely finished, dove-tailed front and back; and are fitted with removable partitions. The two middle drawers of each right hand pedestal are made into one deep drawer, partitioned for books or vertical filing. The base is framed-in all around. All locks are of the highest grade. Desks of this quality are usually sold for 50 to 60 per cent more than our prices.

No. 20-A-32. 60 in. long, 48 in. wide. Shipping weight, 320 lbs. Price, any oak finish..... $36.00

No. 20-A-33. 66 in. long, 50 in. wide. Shipping weight, 330 lbs. Price, any oak finish..... 42.50

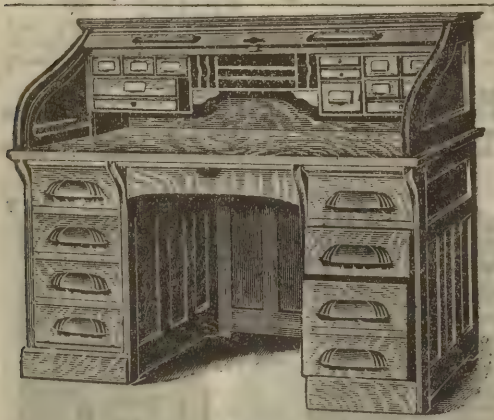
THESE DESKS ARE THE BEST VALUES EVER.

Office Furniture



No. 20-A-120. This high grade sanitary roll top Desk can be furnished in two lengths. The wood is selected figured plain oak, with quarter sawed, built-up writing bed and top; also the choicest selected northern birch finished mahogany in a medium dark shade, with genuine figured mahogany built-up, 5 ply writing bed and top. These desks are of medium height, measuring 47 in. over all. The legs are 1¾ in. square and are fitted with large brass shoes and large ball bearing brass casters. All drawers are smoothly finished inside and out, varnished inside, the upper drawers being fitted with removable partitions. All drawers except the center drawer have moulded fronts, wood pulls and lock automatically with the curtain. The center drawer has an individual flat key lock. Large arm slide over each pedestal. The interior is excellently arranged, finely constructed and contains an index letter file, a 3x5 card index drawer, numerous all wood pigeon hole boxes, desk tray, as well as openings for books, envelopes, stationery, pencils, blotters, etc. The oak desks are finished in a light golden wax finish, the birch and mahogany desks are finished in a dull finish unless otherwise specified. The bottoms of the pedestals are closed making the desk dust proof from below. This desk weighs in the 54 in. length 300 lbs., in the 60 in. length 335 lbs. Heavy inch and a quarter stock is used throughout with square edges, giving this desk the general appearance of those selling for $100.00 or more. Nothing of its quality and attractiveness can be obtained in the ordinary way, except at much higher prices.

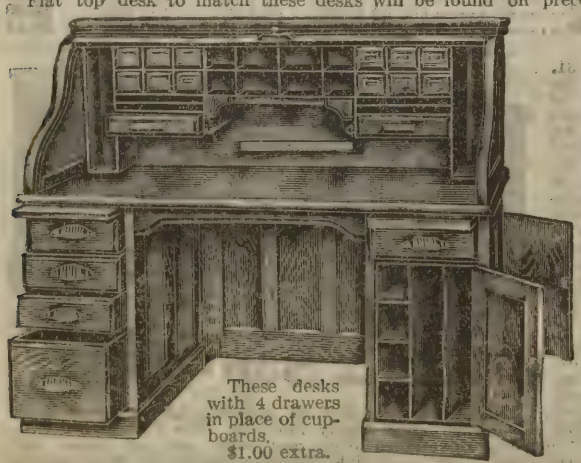
Size	Price Oak	Price Mahogany and Birch
54 in. long, 33 in. (front to back)	$36.25	$38.50
60 in. long, 33 in. (front to back)	39.50	42.00



This Banker's Roll Top Desk is made of selected figured oak with choice quarter sawed top and writing bed, front and interior; or of selected Northern birch with genuine mahogany writing bed and top. The oak desk is in a light golden wax finish, the mahogany and birch desks are rubbed and polished to the highest luster. The curtain is absolutely dust proof, being of the tongued and grooved type. The height is 47 in., the depth is 32½ in. The writing bed is heavy, being made of 5-ply built-up stock especially selected for its beautiful figure. The right hand pedestal contains three drawers, the lower one of double depth, partitioned for books. Two arm slides. These drawers lock automatically with the curtain. The center drawer has a separate lock. The interior is everything that might be wished for, being extremely practical and containing numerous pigeon hole boxes, index letter files, 3x5 card index drawer, book stall, compartment for stationery, pencils, envelopes, blotter rack, etc. The oak desk can be furnished in weathered oak, or Early English as desired. Kiln dried wood only is used, with the best of stains and varnishes. The upper drawers are partitioned. All drawers are finished both inside and out. High grade roller bearing casters. Two tumbler lock on curtain.

	Length	Weight	Price Quarter Sawed Oak	Price Birch and Mahogany
No. 20-A-121	50 in.	265 lbs.	$26.50	$30.50
No. 20-A-122	54 in.	285 lbs.	29.00	33.00
No. 20-A-123	60 in.	315 lbs.	31.75	35.50

Flat top desk to match these desks will be found on preceding page.



These desks with 4 drawers in place of cupboards, $1.00 extra.

No. 20-A-130. This roomy Desk is extremely well constructed of selected figured oak. Extra large front to back, measuring 33 in. and is 52 in. high. This desk can be furnished in polished golden oak, also weathered oak or imitation mahogany finishes. The heavy writing bed is of 5-ply built-up, framed in stock, the left hand pedestal contains four drawers, the lower one double depth, the right hand pedestal contains one drawer and two cupboards, the front cupboard being partitioned for books and other articles as shown, the back cupboard has one horizontal partition through the center. All drawers lock with the dust proof curtain. The interior is fitted with 12 oak front boxes and numerous pigeon holes as shown. All paneling is 3-ply.

Length	Depth	Height	Weight	Price
48 in.	33 in.	52 in.	265 lbs.	$19.00
54 in.	33 in.	52 in.	275 lbs.	22.00
60 in.	33 in.	52 in.	300 lbs.	24.50

No. 20-A-119. These Desks are exactly the same as No. 20-A-120 without the roll top. There are no desks on the market superior in construction or finish. The top is 1¼ in. thick, built of 5 ply stock cross laid and positively cannot warp. By locking the center drawer the entire desk is locked up. The back is open to permit this desk being used as a double desk if desired.

Size of Top	Weight	Price, Oak	Price, Mahogany
54x33 in.	200 lbs.	$25.00	$26.50
60x33 in.	225 lbs.	27.00	29.25
No. 20-A-119½. 60x48 in.,	400 lbs.	38.50	42.00

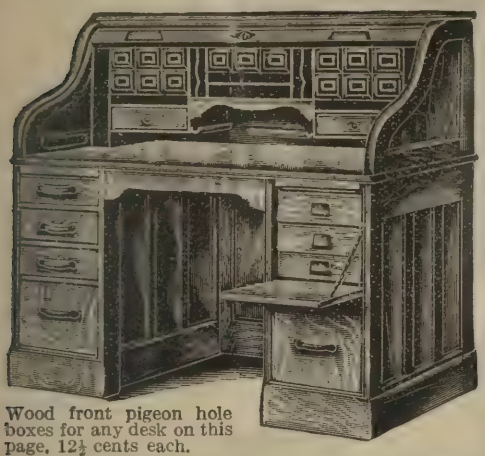
This is a double desk, like illustration but with a back exactly the same as the front. The above desks are especially suitable for bankers, brokers, etc.

An Ideal Desk.

No. 20-A-128. This high grade Roll Top Desk is of extra size, being 35 inches wide and 50 inches high. They are made throughout of selected quarter sawed oak, the writing bed being 5-ply built-up stock with heavy square edges. The top and writing bed are hand rubbed and polished all over. Weathered oak or Early English finish if desired. All pedestal drawers lock automatically. All drawers are finished inside and are of the best construction and fitted at sides to prevent sticking or binding, the upper drawers are partitioned. The interior contains numerous all wood pigeon hole boxes, quarter sawed oak fronts, balance quarter sawed sycamore, 2 index letter files, 3x5 card index drawer, numerous receptables for note heads, letter heads, envelopes, pencils, small drawer for miscellaneous articles, book stalls, blotter rack, etc. Extra heavy lines throughout.

Size	Weight	Price
50 in.	275 lbs.	$30.00
54 in.	285 lbs.	33.00
60 in.	300 lbs.	36.50
66 in.	315 lbs.	40.50

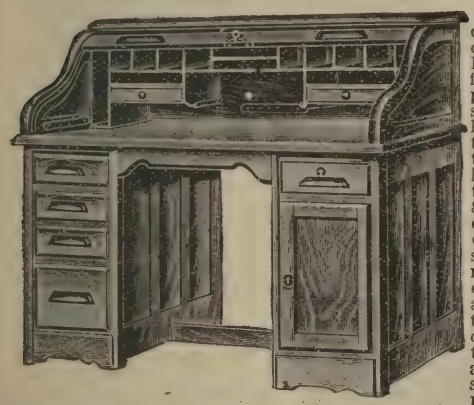
Office Furniture — Roll Top Desks



Wood front pigeon hole boxes for any desk on this page, 12½ cents each.

No. 20-A-100. This desk is very carefully and finely made of the best figured, especially selected white oak, golden finish. The curtain is absolutely dust proof, fitted with double tumbler locks. The interior is usually well partitioned for papers of all sorts, pins, envelopes, stationery, pencils, blotters and miscellaneous items. This desk is 54 inches long, 30 inches front to back, and 50 inches high. All panels are finished with O. G. and coped, thus leaving no square corners. The base is framed in all around. The back is closed. All drawer fronts are moulded and fitted with wood pulls, (brass if preferred). The left hand pedestal has 4 drawers, bottom being double depth, the right hand pedestal has one drawer, the drawer containing three standard alphabetical index files. The large drawer below is partitioned for books. High grade casters. The interior contains 15 wood front pigeon hole boxes with brass combination, label holders and pulls. Price.....**$20.00**

No. 20-A-100½. This can also be furnished identically the same but 48 inches long. Weight, 280 lbs. The interior is of the same general arrangement, but contains one less pigeon hole box, 14 in all. Price.....**$18.25**



No. 20-A-328... This desk is made of white oak, finished golden. Has moulded drawer fronts, O. G. and coped panels, leaving no square edges. Overlapping dust proof curtain with automatic tumbler lock. Extremely practical interior containing two book stalls, 8 pigeon holes, 2 drawers, 2 pencil racks, 4 compartments for stationery and 3 blotter racks. Left hand drawers will lock automatically by closing the curtain. The cupboard and drawer above it are fitted with individual lock and key. Wood handles screwed on, brass if preferred. This desk is 54 inches long, 30 inches front to back and 45 inches high. Weight, 280 lbs.

Price, each.....**$14.65**
Price, each, 48 inches long..... **12.65**

No. 20-A-328½. Same as above with closed back and 4 drawers in the right hand pedestal in place of the cupboard.

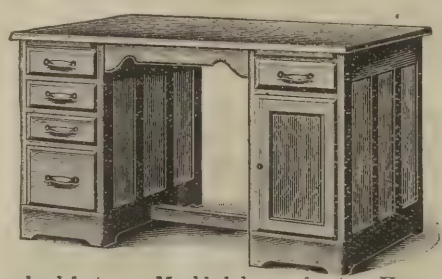
Price each, 54 inches long.....**$15.75**
Price each, 48 inches long..... **13.75**

No. 20-A-102. A well made and extremely pleasing typewriter desk 32 inches long and 23 inches front to back, and 44 inches high. Made throughout of selected figured white oak and a high golden gloss finish all over. The curtain is absolutely dust proof, being made with over-lapping sections, and is fitted with a 2-tumbler automatic lock. The base is rigidly constructed to allow no play. It is attractive in design, and absolutely sanitary. Contains a small drawer for carbon papers, etc., and one arm slide for note book. The interior contains several book stalls, pigeon holes, etc, conveniently arranged to take care of all necessary papers. The typewriter shelf, to which the machine is fastened, slides forward when desired for use. Panel sides and back are coped to prevent accumulation of dust. Shipping weight, 100 lbs. It is such a simple matter to cover the machine with a desk of this sort that it will be done in every instance. Price.....**$5.65**

No. 20-A-102½. Same without curtain top..... **2.65**

No. 20-A-104. This exceptionally well arranged roll top office desk is made throughout of the best selected figured white oak, unusually well finished in a golden color. Refinished weathered oak to order without extra charge if desired. 60 inches long, 30 inches front to back and 50 inches high. The writing bed is of solid stock with rounded corners. All drawer fronts are moulded and equipped with wood handles screwed on, or brass handles if preferred. All drawers in the left hand pedestal are automatically locked by dropping the curtain. The drawer and partitioned cupboard in the right hand pedestal are fitted with individual locks, the back is closed, the base is framed or boxed in and all panel edges are coped leaving no square corners, a very special feature. The interior is partitioned to fit all sizes of stationery, envelopes, including numerous pigeon holes of good size; book stalls, pencil and blotter racks, and small drawers. The curtain is of the overlapping type, absolutely dust proof and fitted with a tumbler lock. All drawers are of the best construction, and are carefully fitted to slide easily. A large arm slide at the top of each pedestal. Weight, 300 lbs.

Price.....**$18.35**
Same. 54 inch length. Weight, 290 lbs. Price **17.15**
We also have a few in the 48 inch length. Weight, 280 lbs. Price.. **15.65**



No. 20-A-101. This high grade flat top desk is made of the best figured white oak, carefully seasoned and finely golden finished. The drawers are snugly fitted, yet simple in operation. The top drawers lock the lower drawers in the left pedestal. The single drawer and partitioned cupboard in the right pedestal have individual locks and panels both inside and out are coped; a very valued feature. Moulded drawer fronts. Heavy base moulding on pedestal fronts, solid top with rounded corners. Wood or brass handles as preferred. This desk can be furnished in two sizes as follows:
Length 54 inches, width 30 inches, height 31 inches, weight 200 lbs.

Price.....**$9.35**

No. 20-A-201, same as No. 115 but with 8 drawers and closed panel back. Price **$10.50**

No. 20-A-202, length 48 inches, width 30 inches, height 31 inches, weight, 180 lbs. Price.....**$8.65**

No. 20-A-203, same as No. 20-A-202, in size and weight, has closed panel back and 8 drawers but no cupboard. Price.....**$9.75**

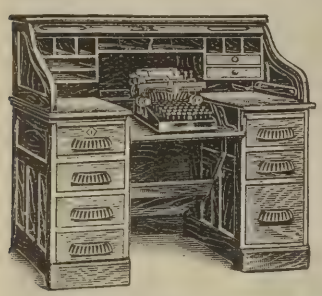
Any desk on this page furnished in weathered oak.

No. 20-A-103. This typewriter desk is 36 inches wide, pedestal being 16 inches wide and the table top 20 inches wide. The pedestal top 30 inches high, the table of the proper height for typewriter, 26 inches. Extreme depth from front to back 24 inches. Weight, 145 lbs. The cabinet is 15 inches high. It is finely made throughout of figured selected oak, unusually well constructed and handsomely finished in golden. The drawer fronts are moulded and the upper drawer automatically locks those below. The pedestal has one arm shelf. The cabinet, which is removable, contains 3 pigeon holes, fitted with boxes 4 shelves for stationery, and a small drawer for carbon paper, etc. The construction of this desk is extra heavy throughout, making it absolutely rigid. Wood or brass handles, good locks, moulded base. All panels are coped, this being an especially good feature.

Price, as illustrated **$9.35**
This desk can also be furnished without the top cabinet. Weight, 125 lbs. Price.....**$5.65**

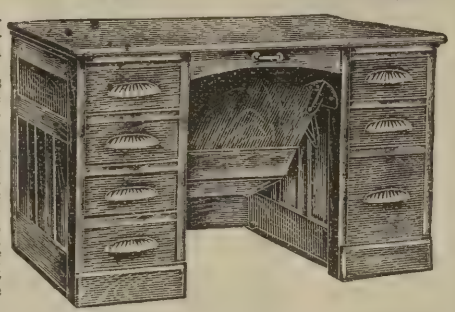
Thoroughly Desirable Typewriter Desks

No. 20-A-117. A perfectly constructed sanitary desk made of the choicest figured golden oak, heavy square edges, five ply built up quarter sawed top. The back and ends are selected plain oak. This desk is 36 in. long, 24 in. front to back and 30 in. high, the typewriter shelf being 26 in. high when open as shown. The pedestal has three drawers of the best construction, shallow but sufficiently large for letterheads, stationery, etc. Arm slide at top of pedestal. The cover can be raised and the machine brought in to use without the operator getting out of the chair. The cover is so constructed that it cannot accidently fall or be knocked down, thereby injuring the machine. The typewriter is under lock and key and protected from the dust when not in use. The raising and lowering shelf is of the finest patented device, it going down and absolute horizontally and the machine does not need to be fastened in any way. The typewriter shelf is very rigid, the compartment into which it sinks being absolutely dust proof. The patent attachment below aids the user in raising and lowering the machine by the slighest pressure. It will accommodate any standard size typewriter. Finished in a beautiful golden wax finish, also weathered or Early English. Nothing yet devised can equal this little desk in general practicability. Weight, 125 lbs.
Price.....**$13.25**



No. 20-A-120. This is the same as No. 20-A-119 on this page with the addition of the roll top. The curtain is tongued and grooved, is absolutely dust proof and is fitted with high grade end locks. The interior contains two drawers, six pigeon holes and four compartment for stationery, also pencil and blotter rack. Built on simple square lines, height 46 in., weight, 295 lbs.
Price, golden or weathered oak..**$26.65**

No. 20-A-120½. Is the same desk but measures 37½ in. long without the left hand pedestal and part of the interior above this pedestal, otherwise the same. Weight, 200 lbs.
Price.....**$22.00**



No. 20-A-119. Identically the same as No. 20-A-118 above but with drawers on both sides, there being four drawers and an arm slide in the left pedestal, size of top 50 in. long, 30 in front to back, weight 130 lbs. Ample knee space when used as a flat top desk. Illustration shows the desk closed. Moulded base, absolutely perfect mechanism which positively will not get out of order. Snugly fitted built up top is an assurance against warping.
Price, golden or weathered oak.....**$20.00**

No. 20-A-119½. Is identically the same as No. 20-A-119, in size and construction but made throughout of the finest quarter sawed golden oak, wax finish or a birch finished rich mahogany. Base framed in all around, drawer fronts are raised and moulded. All drawers are varnished, the upper drawer being partitioned with removable partitions.
Price.....**$26.75**

No. 20-A-116. An excellent flat top sanitary typewriter desk of the same drop construction as No. 20-A-121 on this page. Made of quarter sawed oak with exception of end panel and back. Rubbed wax golden finish, 5 ply built up top. This desk can also be furnished made throughout of birch, with genuine mahogany writing bed. Finished birch mahogany all over. Each pedestal contains three carefully fitted, roomy drawers amply large for all ordinary purposes. Extension shelf at top. Length 50 ins., width 32 ins., height when in use as a flat top desk 30 ins., height of typewriter shelf 26 ins. Weight, 160 lbs.
Price in quartered oak.....**$25.35**
Price in birch with genuine mahogany top and drawer fronts..... **27.85**

No. 20-A-140. This typewriter cabinet is an extra quality article made throughout of perfectly seasoned, selected figured oak, finished in a rich golden gloss or weathered as preferred. Can also be furnished in imitation mahogany. It is 42 in. long and 31 in. high without including the cabinet or copy holder and is 24 inches wide. The typewriter shelf is of the proper height, 26 inches, the table part has an enclosed back and an attractively ornamented panel at the side, thus giving absolutely no play when the machine is in use. The pedestal contains three drawers, the lower one of double depth, and has a large slide at the top. The cabinet is fitted with a flexible dust proof curtain thus keeping the paper clean when not in use. At the back of the table part is fastened the note book holder fitted with a steel clip for holding the copy at the most convenient height for ready reference. The interior of the cabinet is fitted with partitions for stationery and envelopes. If paper cabinet and copy holder are not desired it can be furnished for $1.35 less than price below. The panels are 3 ply, good lock on all drawers. Price.....**$10.00**

No. 20-A-118. An extremely high grade figured plain oak typewriter desk, 37½ in. wide, 30 in. front to back, made of thoroughly seasoned stock, handsomely paneled sides and back, ball bearing casters and with clips for fastening the machine to the writing bed. The raising and lowering mechanism is absolutely perfect. The top drawer in each pedestal is fitted with superior locks, the lower drawers locking automatically with the top drawer. The bottom drawer is of double depth for books, etc. Large arm slide. Absolutely dust proof when closed, adding materially to the life of the typewriter. The weight of the typewriter counterbalances the weight of the top so that a minimum of energy is required to operate the desk. When closed a smooth flat working surface is given. Made in either golden or weathered oak finish. Weight, 150 lbs. Price.....**$16.50**

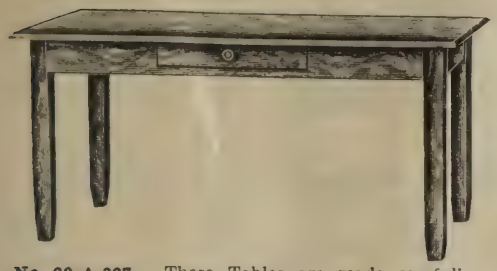
No. 20-A-118½. Is identically the same as No. 20-A-118, with the following exceptions: Made throughout of the very finest selected quarter sawed oak, goldeu wax finish, also made of birch dull finish or rubbed and polished a rich mahogany finish. Drawer fronts are moulded, base is framed in all arouhd Inside of drawers finely varnished, the upper drawer being partitioned. Price (either quarter sawed oak or birch).....**$21.25**

No. 20-A-121. This is one of the finest typewriter desks manufactured. It is 50 in. long, 35 in. front to back and 50 in. high, made throughout of the choicest white oak, golden wax finish rubbed by hand all over. The base is framed in. All drawer fronts, and panels outside and inside are raised and moulded. The writing bed is extra heavy being of 5 ply built up stock. All drawers are finely finished inside and fitted with removable partitions, the middle drawers of the right hand pedestal being made into one large deep drawer for books etc. The interior is extremely roomy containing six all wood pigeon hole boxes, brass pulls, and label holders, two small drawers for pens, eight open pigeon holes, three stationery compartments and five envelope compartments in addition to pencil and blotter racks. The drop mechanism is extremely simple and so arranged that the machine need not be fastened in any way. At the back of the typewriter shelf is a compartment for envelopes, note heads, bill heads and letter heads which drops with the machine. Tongued and grooved, absolutely dust proof curtain with double tumbler lock. We especially recommend this to parties who wish a high grade desk which can be converted into a typewriter desk when desired. Ample knee room when closed. The five ply top assures impossibility of warping and a perfect even writing bed. Weight, 325 lbs.
Price.....**$38.00**

No. 20-A-121½. Is identically the same desk 38 in. long, and without the left hand pedestal. Weight, 215 lbs. Price.....**$26.50**

Please note none of the typewriter desks on this page require metal weights for counter balance.

OFFICE AND DIRECTORS TABLES



No. 20-A-327. These Tables are made carefully of hardwood, finished golden. All sizes contain one small drawer. An excellent table for miscellaneous purposes and miscellaneous use around the office, for telephone, reference books, and in fact for almost any purpose. This table can be furnished in any of the following sizes with heavy square legs tapering neatly at the base and also with a square edge top.

Size of top.	Weight.	Price.
24x36 in.	35 lbs.	$2.85
27x40 in.	40 lbs.	3.15
27x48 in.	45 lbs.	3.45
27x54 in.	50 lbs.	3.75
27x60 in.	55 lbs.	4.10
30x42 in.	65 lbs.	4.70
30x48 in.	70 lbs.	5.00
30x60 in.	75 lbs.	5.65

No. 20-A-329. Store, Office and Restaurant Table. A simple, square legged table of the very best construction, made throughout of selected plain oak, finished in an excellent golden gloss. The legs fasten on with bolts permitting the table to be shipped K. D. Easily set up, without any give or play. The top is heavily framed in all around with heavy moulded rim. This table can be fitted with drawers if desired at 85 cents each additional. Prices quoted below do not include any drawers.

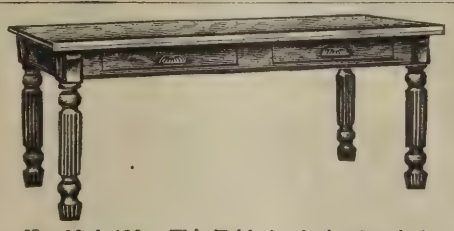
Size of top.	Weight.	Price.
2½x 5 ft.	63 lbs.	$ 6.15
2½x 6 ft.	80 lbs.	6.70
2½x 8 ft.	100 lbs.	9.50
2½x10 ft.	125 lbs.	12.75
3 x 5 ft.	75 lbs.	7.00
3 x 6 ft.	90 lbs.	7.85
3 x 8 ft.	115 lbs.	10.75
3 x10 ft.	150 lbs.	14.00

GENERAL INFORMATION.

All the Tables on this page are made by large, high grade, up-to-date factories and each and every table is all it should be. All wood fillers, varnish, and other material are the highest quality. In lieu of personal inspection, we wish to mention the following points relative to their manufacture; all stock is thoroughly weathered seasoned, also kiln dried in modern dry kilns. This is a very important factor as large surfaces, such as table tops, show the slightest warping. All tables are shipped in standard golden oak finish unless otherwise ordered. Early English, weathered or other special finishes will be furnished without extra charge but require time. The countermand for a special finish will not be accepted after work has been begun. Special attention is called to the simple and desirable patterns of all the above tables. They are all up-to-date, clean cut, acceptable goods.

No. 20-A-330. This extra heavy, square leg Library and Office Table is made throughout of the choicest figured plain oak, perfectly seasoned and finely finished in a dull rubbed satin, either golden or weathered (mission) as preferred. The top is 1¼ in. thick and has square edges and corners, is framed in all around and contains two drawers in the 6 ft. length, one large drawer in the 5 ft. length. The heavy square legs taper slightly at the foot, giving them a very neat effect. The construction throughout is of the very finest, drawers being smoothly finished, varnished inside, full dovetailed front and back and carefully fitted. Heavy stretchers and base are additional strong factors.

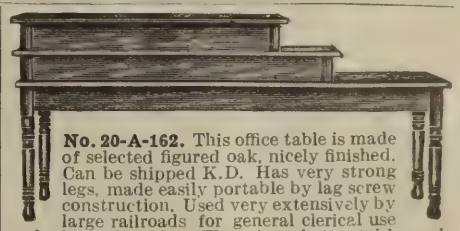
Size.	Weight.	Price.
30x60 in.	110 lbs.	$10.15
36x72 in.	135 lbs.	12.50



No. 20-A-136. This Table is of pleasing design of the highest grade construction; made throughout of the most carefully selected and seasoned oak, finished in dull rubbed, satin, golden finish. The 5 ft length contains one large drawer, the 6 ft length contains 2 full sized drawers. The legs are heavy, deeply corrugated and of pleasing design. The drawers are snugly fitted, yet will not stick or bind. All full dove-tailed front and back and carefully varnished inside. The legs are fastened on with bolts and nuts allowing the table to be shipped knocked down and easily and quickly set up. This method of shipment eliminates risk of breakage and reduces freight charges more than one-half. Also furnished in weathered oak.

Size.	Weight.	Price.
36x60 in.	80 lbs.	$10.00
36x72 in.	100 lbs.	11.15

This Table can be furnished with a green felt top or imitation leather top put on with strips around all sides preventing any possibility of its peeling or becoming loose for $1.35 additional on either size.

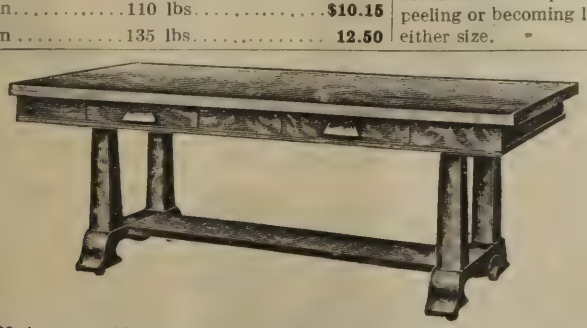


No. 20-A-162. This office table is made of selected figured oak, nicely finished. Can be shipped K.D. Has very strong legs, made easily portable by lag screw construction. Used very extensively by large railroads for general clerical use and telegraph table. There is no better table made for all around office use. **A good mailing table.** We have 175 of them in the following sizes. If drawers are desired in these tables, add **85 cts,** per drawer. Weighs from 65 to 150 lbs.

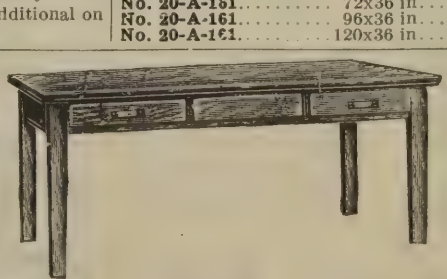
No. 20-A-162.	60x30 in.	$ 5.85
No. 20-A-162.	72x30 in.	6.50
No. 20-A-162.	96x30 in.	9.20
No. 20-A-162.	120x30 in.	12.35
No. 20-A-162.	60x36 in.	6.65
No. 20-A-162.	72x36 in.	7.50
No. 20-A-162.	96x36 in.	10.45
No. 20-A-162.	120x36 in.	13.60

No. 20-A-161. Same table as No. 162 only that it is made with white wood top, elm frames, base finish antique, top white. Drawers if desired in this table add **75 cts.** per drawer. We have 150 of the above tables in the following sizes.

No. 20-A-161.	60x30 in.	$ 3.80
No. 20-A-161.	72x30 in.	4.35
No. 20-A-161.	96x30 in.	6.50
No. 20-A-161.	120x30 in.	8.85
No. 20-A-161.	60x36 in.	4.50
No. 20-A-161.	72x36 in.	5.00
No. 20-A-161.	96x36 in.	7.50
No. 20-A-161.	120x36 in.	9.50



No. 20-A-138. This director's or office table is of extra width and length, measuring 42x84 in. It is of artistic design with heavy legs, broad connecting shelf below and Colonial feet. Extra heavy square top. Two very large drawers. Although rich in appearance it has no gew-gaws or carvings to catch the dust and dirt. It is made throughout of the very choicest large flaky grain, quartered sawed oak. It is hand rubbed and polished all over to the highest golden luster. Can also be furnished in a high grade, weathered or Early English finish. These tables were made by a factory who use the very highest grade of weather-seasoned and kiln dried stock. The tastiness and correct proportions of this table cannot help but appeal to the most discriminating buyers. Tables no better than this are sold regularly at from $45.00 to $50.00. Weight, 300 lbs.
Price..... $27.50



No. 20-A-137. This high grade table was made by a factory making only high class goods. It is made throughout of the choicest large flaky grain, quartered sawed oak in a light golden wax finish, or rubbed and polished if preferred. It is also made of the choicest seasoned Northern birch throughout, with genuine Cuban striped mahogany top, hand rubbed and polished. The top, which is extra heavy, is of 5 ply built-up stock with square edges. The legs taper slightly and add materially to the pleasing appearance. The 5 ft. length contains two large drawers. The 6 ft. length contains 3 drawers. The middle one opens from the opposite side of the table. Tables are shipped K. D. and can be instantly put up. Are absolutely rigid being of the best bolted construction.

Size of top.	Weight.	Price Oak.	Price Mahogany Top.
5 ft. x 34 in.	110 lbs.	$14.75	$17.00
6 ft. x 34 in.	130 lbs.	17.00	19.85

OFFICE CHAIRS

All chairs in catalog are perfectly seasoned stock, so put together that they cannot come apart. All swivel chairs are fitted with the best attachment, yet thought of. They are adjustable to any height and stay there until readjusted. The springs which regulate the tilting are very strong and are adjusted by a screw in front permitting every chair to counterbalance the weight of the occupant. All swivel chairs are equipped with high grade steel casters.

No. 20-A-314. This very strong, continuous Arm Chair is of light golden finish. The standards are attractive and finely shaped. Has a shaped seat. We recommend this chair for its construction and durability.
Weight, 11 lbs.
Price, each.....**$0.85**

No. 20-A-315. This is a first class, golden elm tilting chair, has continuous arms, shaped seat, heavy legs, the best screw device for raising and special tilting springs which can be adjusted as desired. Weight, 35 lbs.
Price, each.....**$2.65**

No. 20-A-316. Known as the Douglas arm chair and is very strong as well as comfortable and pleasing, carefully made throughout of hardwood with high golden gloss finish. The back, seat and legs are tastily constructed. These chairs can be furnished painted a light yellow for the price if so specified. Has attractively turned posts, legs and stretchers, the later being of hickory. Weight, 12 lbs.
Price, each.....**$1.50**

No. 20-A-300. A large, roomy, continuous arm chair, with high back with 6 flat spindles. Shaped saddle seat, well constructed and finished in a high golden gloss.
Weight, 18 lbs.
Price, each.....**$1.80**

No. 20-A-301. A revolving chair to match No. 20-A-300 above. Large and roomy with heavy shaped saddle seat. Made of selected elm, well finished in a golden color. High back with 6 cross spindles. The base is wide, and is fitted with the best type of raising and lowering tilting device. Weight, 40 lbs.
Price, each.....**$3.50**

No. 20-A-302. This plain stool is strongly made of seasoned elm, finished in a rich golden oak. It is adapted to bookkeepers, clerks, hotels, stores, etc. Seats are of solid wood dished for comfort. Weight, about 10 lbs. We can furnish same in three sizes, viz. 18, 24 and 30 in. Price each, respectively .....**$0.55, $0.70 and $0.80.**

No. 20-A-303. This is a good sized saddle seat, golden elm chair of pleasing style, suitable for office, restaurant or store. The back supports and back legs are continuous. Everything the best, cannot come loose. It is additionally reinforced with braces screwed to the posts and seats. Attractively shaped legs.
Price, each.....**$1.25**

No. 20-A-303½. Tilting swivel chair to match.
Price, each.....**$3.00**

No. 20-A-312. This is a very high grade desk or stenographer's chair without arms. Has a heavy saddle seat and large paneled back, supported with arm braces. Has the best of tilting and raising device. This chair is made of selected figured quarter sawed oak, hand rubbed and polished all over. It is a remarkably attractive as well as comfortable chair.
Weight, 30 lbs.
Price, each.....**$3.65**

No. 20-A-304. This is an attractive, substantial, roomy and most comfortable chair, one which looks well and will stay looking well at all times. The legs are attractively yet simply turned, the stretchers being 10 in number, 3 in front, 3 in the sides and one in the back made of hickory, which is the best for this purpose. Can furnish with either shaped wood saddle seat or cobbler seat as illustrated.
Weight, 17 lbs.
Price, each.....**$3.35**

No. 20-A-304½. High grade swivel chair to match. Price, either style seat.....**$4.35**

No. 20-A-306. This Swivel Chair has the best raising and tilting construction. A heavy saddle seat and low back. Finely finished in either golden oak, polished or waxed. We especially recommend the wax finish. Weight, 45 lbs.
Price, each.....**$5.35**

No. 20-A-306½. Side chair to match.
Price, any oak finish.**$3.00**

No. 20-A-308. This Bank of England Arm Chair is one of the most comfortable and attractive chairs for all around high grade use. The seat is broad as well as deep. The legs are heavy, of elegant style and the stretcher construction is such that there are no rungs interfering with the feet. The steam bent spindles and roomy seat together with slanting back, give this chair the maximum of comfort. Can be furnished, made throughout of the choicest seasoned, specially selected quarter sawed oak of golden finish, hand rubbed and polished to the highest luster or wax finish. We can also furnish same in solid mahogany, polished or dull finish, as preferred.
Weight, 30 lbs.
Price, each, oak.....**$ 7.00**
Price, each, solid mahogany.....**11.00**

No. 20-A-309. This high grade quarter sawed oak office chair is finely constructed, of standard size, has a rounded broad panel back, heavy square posts, heavy legs, best of base and spindle construction. It has a shaped saddle seat. A high grade chair in every respect and one which will stand all sorts of abuse and always look well. Can be furnished in either excellent golden finish or weathered oak finish.
Weight, 14 lbs.
Price, each.....**$2.00**

No. 20-A-310. This is a very large, roomy swivel chair of the finest construction, workmanship and finish. The arms and posts are of one continuous piece of oak, steam bent and ending in heavy rolls, deeply corrugated at the top and front. The back has a broad shaped panel top. It has a shaped saddle seat, broad heavy base, and the best raising and tilting device. Made throughout of selected, quarter sawed oak, hand rubbed and polished all over.
Weight, 40 lbs.
Price, each.....**$6.25**

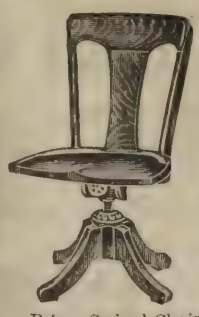
No. 20-A-311. This is one of the most popular and comfortable up-to-date office chairs, made throughout of selected figured oak with quartered oak back. It is hand rubbed and polished all over to the highest luster. Has shaped saddle seat, strong shapely legs. No rungs in front to come in the way of the feet. The back is extra high and seat extra wide. A very high grade chair, and as strong as can be manufactured. Weight, 25 lbs. We can also furnish same in weathered oak.
Price, each.....**$3.75**

No. 20-A-313. It is a comfortable as well as attractive swivel chair, high grade, up-to-date, roomy and of exceptional leather. Best of construction throughout. The finish is of a rich golden polish, frame being oak throughout. The back panels are of quarter sawed oak. Has broad, strong arms, heavy base, best tilting and raising device. The back is slightly curved for comfort. This chair and its companion were designed especially to harmonize with the heavy square office furniture now in use. Short arms prevent bumping or scratching the desk when in use.
Price each, golden or weathered oak.....**$5.00**

No. 20-A-307. This is a well known Bank of England Chair. The back and arms are of one continuous piece, the arms being spread and short to prevent interfering with the desk. The seat is extra deep, front to back, as well as extra wide, and is saddle shaped to fit the body and extra heavy. The base is broad, extra heavy, and the adjustible tilting mechanism is the very best. Can be furnished in polished quarter sawed oak, golden finish, also wax finish. Weight 40 lbs.
Price, each, quarter sawed oak.....**$ 8.35**
Price, each, solid mahogany.....**12.35**

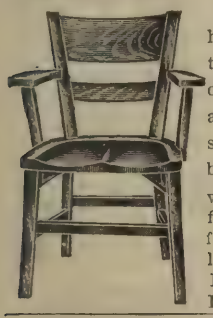
No. 20-A-317. The two chairs shown here are companion pieces. These chairs are made of northern birch throughout with genuine mahogany back panels. Also furnished in selected golden quarter sawed oak. The arms are broad, shortened to prevent marring the desk. The seat is wide and of a saddle shape. The swivel chair has a very heavy base with the best tilting and raising device and has high grade casters. The stationary chair has tapering legs, square stretchers which will not interfere with the feet and has a box frame rim all around underneath the seat. Weight, 40 and 30 lbs. respectively.

Price, Swivel Chair.....**$6.00** Price, Arm Chair.....**$4.65**



No. 20-A-401. These high-grade birch chairs have genuine mahogany top and back panels, and may be virtually considered solid mahogany chairs. The construction is of the best throughout. They are extra large and have comfortable saddle seats that are so strongly made they cannot break. Side chair has tapered legs and square spindles with box framed-in seat all around. Made for use in high-grade offices. Weight of swivel chair, 25 lbs.; side chair, 16 lbs.

Price, Swivel Chair.....**$5.25** Price, Side Chair.....**$4.00**

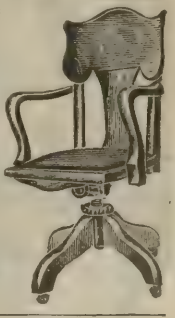


No. 20-A-318. These chairs have large seats, broad arms, tapering legs, square stretchers on base. The back is rounded and chair has a shaped saddle seat. Quarter-sawed oak. Can be furnished in golden oak, weathered oak or Early English finish. Large, strong and comfortable. Weight, 40 and 30 lbs. respectively.

Price, Swivel Chair.....**$5.25**
Price, Arm Chair..... **4.00**

No. 20-A-402. We illustrate herewith a swivel and arm chair to match, unquestionably two of the finest chairs ever offered at the low price we quote. They have both saddle and genuine leather spring upholstered seats, square stretchers and continuous arms. Swivel chair has best tilting and raising device made. Made of quarter sawed oak, finished golden. Hand carved feet on arm chair. Weight, 20 and 40 lbs. respectively.

Price, swivel chair, saddle seat.....**$5.75**
leather seat..... **6.50**
Price, arm chair, saddle seat **5.00**
leather seat..... **5.75**



No. 20-A-320. This revolving stool is strongly constructed of seasoned elm in a thoroughly good golden gloss finish. Has heavy iron castings, giving it a maximum of strength. The top which is revolving can be adjusted to desired height and will stay there until readjusted. Can be furnished in golden finish only; four heights, viz., 18, 24, 30 and 36 in. Weight about 18 lbs.

Price 18 in.....**$1.60**
" 24 " **1.70**
" 30 " **1.80**
" 36 " **1.85**

No. 20-A-400. The best typewriter chair yet devised. Adjustable to any height; the back being of genuine leather, heavy upholstering, adjustable to any desired height; also can be tilted forward or backward to any position. Strong, attractive base; roomy and comfortable saddle or cane seat as preferred. The saddle seat is of the best quarter sawed oak, an ideal chair, and the one which you should buy. Best golden oak, hand rubbed and polished or waxed, also weathered oak.

Price **$4.65**

These large, roomy and very high grade chairs are companion pieces. Made throughout with the utmost care and of the choicest quarter sawed oak, hand polished to the highest finish. They have broad, comfortable and shapely saddle seats; attractive panel backs with seven broad spindles. The continuous arms are screwed to the back posts and seat. Bound to please.

No. 20-A-420. **No. 20-A-421.**

The swivel chair is of the best raising and tilting device, with strong spring. The arm chair is a very fine office or hotel chair. They weigh 40 and 20 pounds, respectively.

No. 20-A-421. Price of swivel chair.....**$5.00**
No. 20-A-420. Price of arm chair..... **3.35**

No. 20-A-319. A pleasing, strongly constructed and comfortable typewriter chair. The seat and back are made of American quarter-sawed oak throughout, with shaped round seat of good size, golden gloss finish. The spring back is adjustable in height and has a 4 in. play front to back. The seat does not tilt but can be adjusted to any desired height, and will stay until readjusted. Weight, 22 lbs.

Price, each.....**$3.50**

No. 20-A-322. This is a good revolving stool, strongly constructed of elm, golden gloss finish, has rounded panel back with 6 spindles, the posts being curved at the bottom and screwed to the solid shaped seat. The seat is adjustable to 30 or 33 in. high from the floor. Has strong, attractive base and castings.

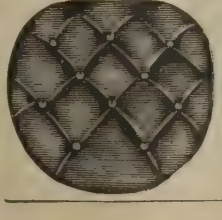
Price, each.....**$2.25**

No. 20-A-323. A high grade, solid oak desk stool, the very best of its type manufactured. Adjustable in height from 31 in. to 35 in. Panel back of quarter-sawed oak. It is finished in a rich golden gloss. Has extra heavy castings, foot rail all around and can be furnished with either the best quality hand cane seat or with saddle shaped quarter-sawed oak saddle seat. Also furnished in a high grade of birch, finished mahogany.

Price, with either seat..... **$4.50**

No. 20-A-321. This is one of the finest standing Desk Stools made. Has thick saddle shaped seat. The base is of the strongest type, extra heavy foot rail all around, the legs spreading at the base thus giving plenty of foot hold. Made of solid oak throughout. Quarter sawed It is hand rubbed and polished to the highest finish. The seat in addition to being adjustable to any height is tilting and can be regulated to suit the weight of the user. Height of seat 32 inches. Also furnished in birch mahogany.

Price, each.....**$6.00**



No. 20-A-325. This cushion is 19 ins. wide and 18 ins. in length. It is finely upholstered with hair and moss, diamond tufted, and the buttons will not pull through the covering or will not come off. This can be furnished in imitation leather or No. 1 hand buffed leather.

Price each, imitation leather.....**$1.40**
Price, each, No. 1 hand buffed leather..... **3.35**

No. 20-A-325½. A genuine leather cushion will be made to order to fit any chair seat upon receipt of a paper pattern.

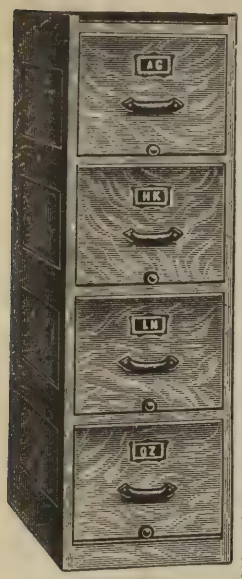
Price, each.....**$3.35**

TAKE A FEW MINUTES TIME AND GLANCE THROUGH THIS BOOK AND CONVINCE YOURSELF OF THE SAVING YOU WOULD MAKE, IN SENDING US AN ORDER.

NOTICE ORDER BLANK.

On the last page of this catalogue you will find a conveniently arranged order blank, which can easily be detached. Kindly tear it out, and use when sending us an order Additional blanks and self-addressed envelopes are gladly furnished you.

Filing Cabinets, Index Cards, Typewriters, Etc.



No. 20-A-107. Standard Make Vertical Files. The illustration shows the letter size which contains 4 drawers made to accommodate papers up to 12½x10 inches.

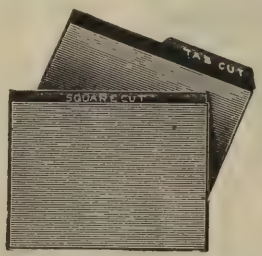
The legal or cap size contains the same number of drawers and is large enough for legal or other papers up to 10x15 inches in size.

The bill or invoice file contains 5 drawers for papers 8x10 inches or smaller. All cabinets are uniform in height and depth, measuring 52 inches high and 26½ inches front to back. The letter size is 15¾ inches wide outside; the cap size is 18¾ inches, and the bill size is 13¾ inches wide outside. All drawers are 24 inches deep front to back, are varnished inside and out, and slide on rubber buffed extension slides, which prevent the spilling of contents when opened to full length. All drawers have follower blocks and rods for holding guides or indexes. The fronts of these rods are shown in illustration. Construction throughout is of the very best, all drawers being dove-tailed at both front and back.

These cabinets can be furnished with quartered white oak top and fronts and plain oak, 3 ply, sides and back; or of birch throughout. Oak files are in stock in both golden and weathered finishes; birch files have a rich mahogany finish. The drawer fronts are fitted with oxidized copper pulls and label holders. The following prices are for oak, either finish; or for birch, mahogany finish. Weights, 190 to 225 lbs.

Vertical letter size	**$11.75**
Vertical cap size	**12.50**
Vertical bill size	**13.50**

When three or more cabinets are desired for use side by side the center ones need not have closed panel sides. These are termed open end sections and can be furnished in any size or finish at $2.25 less than the price for the same file complete.



No. 20-A-106. Guides and Folders for Letter Files and Card Cabinets. Guides are of excellent quality Manila stock, die cut, absolutely true. Those for upright files have bottoms reenforced with metal eyelets, absolutely preventing tearing. Press board guides are of very heavy board, and are recommended very highly, being the most economical in the long run, especially for hard usage.

Number in Set	Size	Manila, Price	Pressboard, Price
Blank....per hundred	V Bill	**$0.65**	**$2.50**
Blank....per hundred	V Letter	**.80**	**2.75**
Blank....per hundred	Cap	**1.10**	**4.25**
Numbered as desired, per hundred	Bill	**.90**	**2.75**
" per hundred	Letter	**1.00**	**3.00**
" per hundred	Cap	**1.35**	**4.50**
Monthly....12	Letter	**.12**	**.45**
Monthly....12	Cap	**.25**	**.60**
Alphabetically..25	Bill	**.20**	**.65**
Alphabetically..25	Letter	**.25**	**.75**
Alphabetically..25	Cap	**.40**	**1.25**
Daily....31	Letter	**.35**	**.95**
Daily....31	Cap	**.50**	**1.50**

These can be furnished in either blue or buff, and are unperforated. Extra quality. Two weights, medium and heavy.

	Medium Weight 3x5	4x6	5x8	Heavy Weight 3x5	4x8	5x8
Blank....per hundred	**$0.25**	**$0.40**	**$0.50**	**$0.50**	**$0.80**	**$1.25**
Weekly (7) per set	**.03**			**.05**	**.08**	**.10**
Monthly (12) per set	**.07**	**.08**	**.10**	**.10**	**.12**	**.20**
Daily (31) per set	**.12**	**.20**	**.30**	**.25**	**.30**	**.45**
States (57) per set	**.25**	**.30**	**.45**	**.40**	**.55**	**.80**
25 A-Z per set	**.10**	**.13**	**.25**	**.20**	**.25**	**.35**

All the above can be furnished in larger alphabetical sets. The following number per set: 40, 80, 120, 160, 240, 320 and 400, at the same ratio as the set of 25.

No. 20-A-105. The illustrations show two styles of folders. One in front, square cut, is the ordinary folder without tabs, and folder shown behind has tab. (No. 20-A-105½) is printed for number, name and address. These come half cut, the tab on the right hand side, and are die cut.

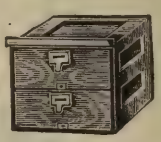
	Medium Weight Bill	Letter	Heavy Weight Bill	Letter	Cap
Tabbed and printed		**$0.45**	**$0.60**		
Square Cut	**$0.30**	**.35**	**.40**	**$0.60**	**$0.80**

No. 1.

No. 2.

No. 3.

Shell.



No. 4.

No. 5.

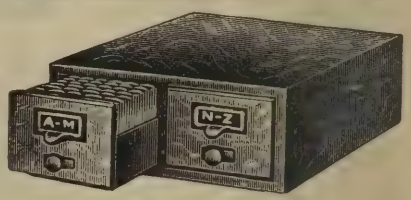
No. 20-A-114. Interchangeable Cabinets. This new system permits the ordidary business man to have just what he requires in the filing cabinet line without buying anything more than needed. The shell illustrated is identical in construction, size and finish to our No. 20-A-107 file, but has no drawers in it. Any one of the five units illustrated will fit any of the 4 openings of the shell. Unit No. 1 contains two vertical document files for papers 4¾ inches wide and not over 10½ inches high. Unit No. 2 is a standard vertical letter drawer. Unit No. 3 contains 5 drawers 1 inch deep and of proper size to hold standard legal blanks, 9½x14½ inches. Unit No. 4 has two drawers for filing cancelled checks, etc., on edge, for checks 9½x3¾ inches or smaller. Unit No. 5 contains 4 standard drawers for filing 3x5 cards.

Fronts of all oak units are quartered oak, polished. They are fitted with oxidized copper hardware. The shell and all units can be furnished in golden oak, weathered oak, or birch mahogany finish.

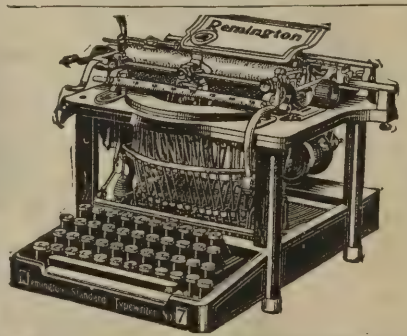
	Price
Shell, without any fittings	**$6.00**
Units No. 1, 3, 4 and 5, each	**3.00**
Unit No. 2, each	**1.50**

Note: All of these units are of standard make and will accommodate any standard supplies. Prices quoted include no supplies of any sort, and are for cabinets only. Supplies will be found priced elsewhere on this page. Units are valueless without the shell, being finished only in front.

No. 20-A-115. Card Index Cabinets. These cabinets are of standard make, quarter sawed golden oak, rubbed and polished finish. All drawers are equipped with follower blocks, rods, are full dove-tailed and are made for perforated cards. Fronts are fitted with oxidized copper, combination holders, pulls. They are of standard depth and will accommodate any standard make of indexes or cards.



No. of Drawers	For of cards	Weight	Price
1	3x5	10 lbs.	**$1.65**
2	3x5	25 lbs.	**2.40**
4	3x5	35 lbs.	**4.60**
6	3x5	40 lbs.	**6.50**
1	4x6	12 lbs.	**2.15**
2	4x6	28 lbs.	**2.80**
4	4x6	45 lbs.	**4.35**
6	4x6	75 lbs.	**7.75**
1	5x8	15 lbs.	**2.65**
2	5x8	35 lbs.	**3.70**
4	5x8	60 lbs.	**6.75**



Write for Prices on Guaranteed "Rebuilt" Typewriters.

No. 20-A-1400. Blueprint or electrotype cabinet, constructed of seasoned black ash, finished in a golden or weathered oak. Extra heavy drawer sides and bottoms, will not sag or loosen with the heaviest weight. Extension at back of drawers to prevent falling or spilling when opened to full extent. All drawers measure 15½ inches front to back inside and 1 inch high. All cabinets are 20½ inches front to back outside. The widths range from 25 to 36 inches. Highly recommended by us.

No. of drawers	Inside length of drawers	Weight	Price
12	20½	125 lbs.	**$10.80**
16	20½	150 lbs.	**12.60**
20	20½	165 lbs.	**14.40**
12	24½	165 lbs.	**13.50**
16	24½	195 lbs.	**16.20**
20	24½	210 lbs.	**18.90**
12	30½	175 lbs.	**17.10**
16	30½	215 lbs.	**19.80**
20	30½	240 lbs.	**22.50**

Handy Order Blank—Tear out and fill in your order

Catalog No. 160

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts., CHICAGO.

Date_____ 190

Name_____

Town_____

County_____ State_____

Street_____ R. F. D._____

TO BE SHIPPED TO

Name_____

Shipping Point _____

County_____ State_____

Railroad Co._____ Is there a Freight Agent at your point?_____

Enclosed Find Remittance as follows:

	Dollars	Cents		Dollars	Cents
Draft or Check If on Local Bank add 25c for exchange . .			C. H. W. Co. Check		
Post Office Order			Currency		
Express Money Order . . .					
C. H. W. Co's Treasurer's Voucher			Postage Stamps		

CATALOGUE OR CIRCULAR NUMBER	LOT NUMBER	QUANTITY	Name of Article	PRICE EACH PER DOZEN OR PER POUND			

Handy Order Blank—Tear out and fill in your order

CHICAGO HOUSE WRECKING CO.--ORDER BLANK

Amount brought forward from other side

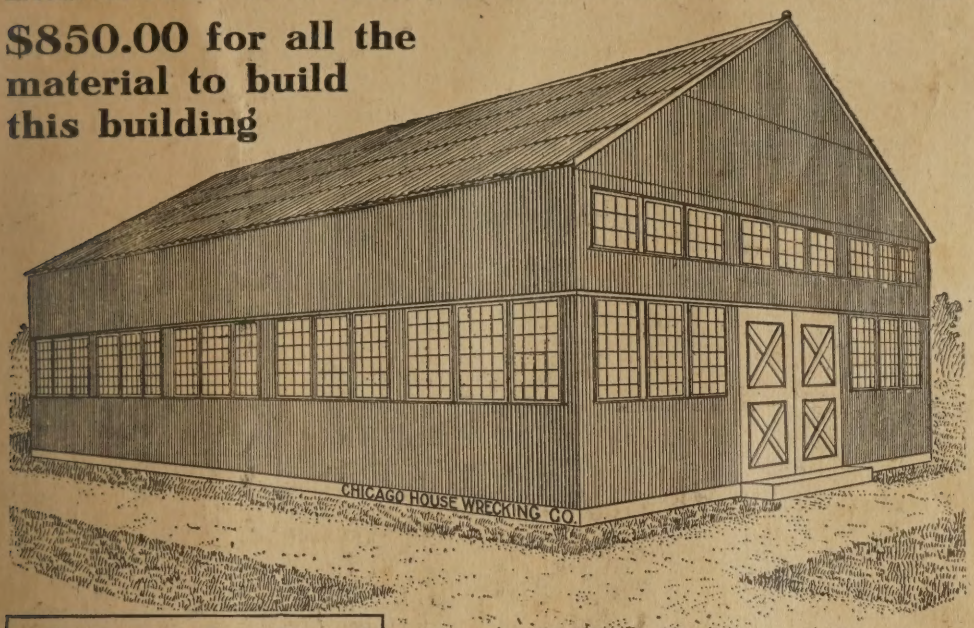
CATALOGUE OR CIRCULAR NUMBER	LOT NUMBER	QUANTITY	Name of Article	PRICE EACH PER DOZEN OR PER POUND			

CHICAGO HOUSE WRECKING CO., 35th & IRON STREETS, CHICAGO.

MODERN FIREPROOF STEEL BUILDINGS

EXCEPTIONALLY GOOD OFFERS IN STEEL BUILDINGS OF ALL SIZES FRAMED READY TO ERECT

$850.00 for all the material to build this building



Exterior view of our Fireproof Steel Buildings, 30 ft. wide by 60 ft. Long; 18 ft. High at Eaves.

We are making special prices on Modern Fireproof Steel Buildings suitable for factories, barns, warehouses, machine shops, foundries, storage, sheds, shops, etc.

The above illustrations are of the most popular Modern Fireproof Steel Buildings, constructed entirely of steel and practically indestructible.

We are making a special price of $850.00 for material to build this Fireproof Steel Building.

We furnish, ready to set up, Steel Columns, Girths, Lateral and Sway Braces, Roof Trusses, Purlins, Anchor Bolts, Rivets and Bolts for setting up, Corrugated Galvanized Iron for Walls and Roof, Gutters and Down Spouts, Doors and Windows, Hinges, Locks, Nails, etc., to complete this building according to our Blue Print Plans, Specifications and Bill of Material.

Plans, Specifications and Bill of Material furnished FREE with material. The Plans show exactly where each item in the bill of material is used in the building, each piece of steel being numbered in the Material List and correspondingly numbered on the Plans, greatly simplifying the erection of the building and at a great saving in the cost of labor.

We have many other designs of steel buildings on which we can save you from 30 to 50 per cent. If you contemplate erecting a steel building or using any steel for any other purpose, it would pay you to get our prices before purchasing. Our steel buildings are designed by expert structural engineers, who can furnish you with any information that you would desire to know in regard to anything in the structural steel line.

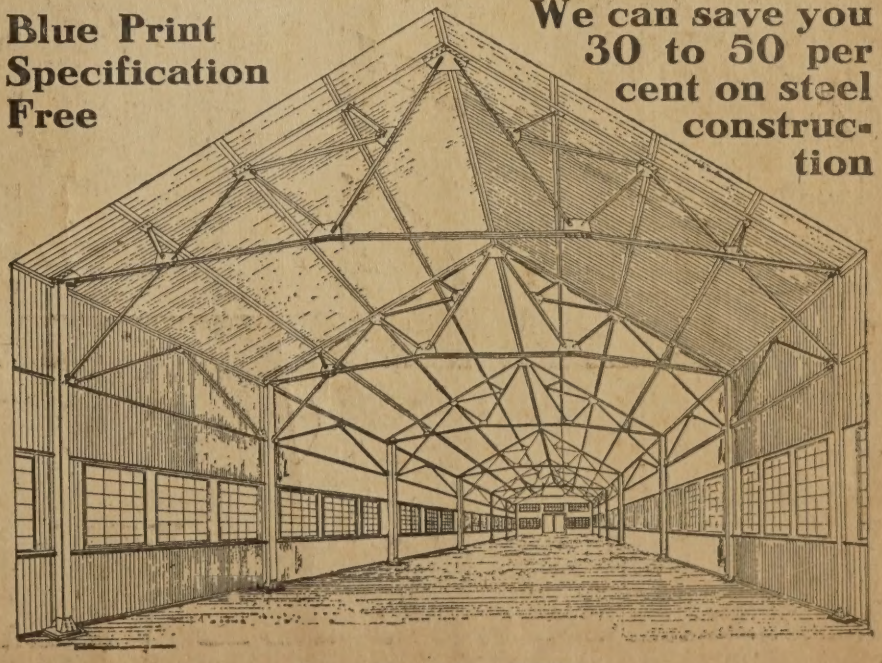
Blue Print Specification Free

We can save you 30 to 50 per cent on steel construction

WE ALWAYS HAVE ON HAND A LARGE STOCK

of second-hand I Beams, Channels, Angles, T's, Plates, Cast Iron Columns, etc., on which we can save you from 30 to 50 per cent. We also carry a large stock of new Structural Steel, consisting of I Beams, Channels, Angles, T's, Plates, etc., which we can furnish you at the lowest market prices.

We are prepared to make prompt shipment of any of the Fireproof Steel Buildings purchased from us.



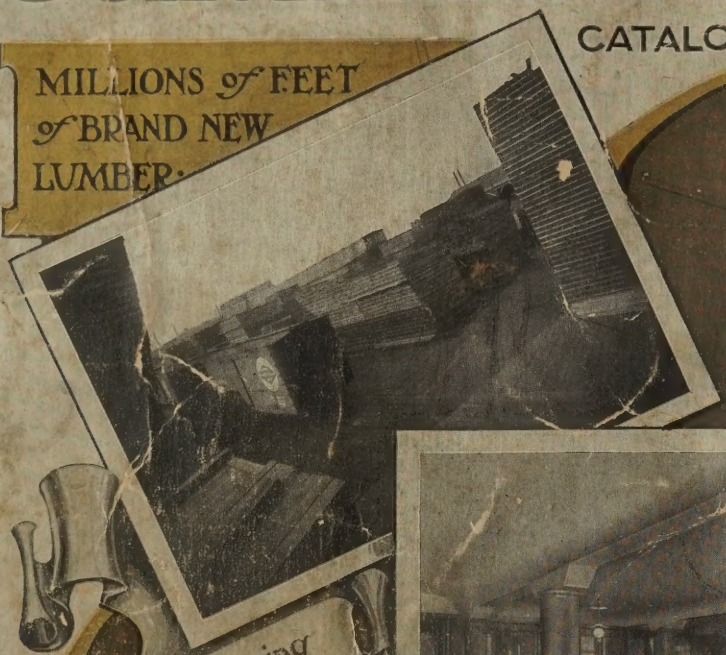
Interior View of Same Building.

OUR GREAT LUMBER DEPARTMENT

CATALOGUE 160

MILLIONS of FEET of BRAND NEW LUMBER.

OUR PRICES SAVE YOU 35 to 50 PER CENT.



Yard scene showing dry sheds in distance

Storage Yards.

An alley way in our mammoth lumber yards.

In our Lumber Dept Office we employ a vast staff of estimators & Salesmen. This picture shows just a small portion of the office.

Interior view of one of our Dry Sheds.

EVERY PIECE OF STOCK IS GUARANTEED. BRAND NEW.

NO WRECKED OR SECOND HAND LUMBER FOR SALE.

CHICAGO HOUSE WRECKING CO

35th and IRON STS

CHICAGO